

July 30, 2021

BY ELECTRONIC MAIL

Luly E. Massaro, Commission Clerk Rhode Island Public Utilities Commission 89 Jefferson Boulevard Warwick, RI 02888

RE: Docket 4770 – Cyber Security and Information Technology Modernization Programs

<u>Capital Investment Quarterly Report - Third Quarter of Rate Year 3</u>

Dear Ms. Massaro:

On behalf of National Grid,¹ I have enclosed the electronic version of the Company's Cyber Security and Information Technology Modernization Programs Capital Investment quarterly report for the third quarter of Rate Year 3, pursuant to Article II, Section C.13.d. of the Amended Settlement Agreement, approved by the PUC at its August 24, 2018 Open Meeting.²

Thank you for your attention to this matter. If you have any questions, please contact me at 781-907-2121.

Very truly yours,

Raquel J. Webster

Enclosures

cc: Docket 4770 Service List Linda George, Division John Bell, Division Al Mancini, Division Leo Wold, Esq.

¹ The Narragansett Electric Company d/b/a National Grid (National Grid or the Company).

² Per instructions from PUC counsel dated July 27, 2021, the Company will also file one hard copy for the clerk and four (4) additional three-hole punched hard copies for commissioners and staff.

The Narragansett Electric Company d/b/a National Grid

Cyber Security and Information Technology Modernization Programs

Capital Investment Quarterly Report Third Quarter of Rate Year 3

July 30, 2021

Docket No. 4770

Submitted to:

Rhode Island Public Utilities Commission

Submitted by:

nationalgrid

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Cyber Security and IT Capital Investment Quarterly Report Rate Year 3 – Third Quarter Ended May 31, 2021

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I. Introduction

The Narragansett Electric Company d/b/a National Grid (the "Company")¹ submits this Information Technology ("IT") Capital Investment Quarterly Report ("IT Quarterly Report") for the third quarter of Rate Year 3, ended May 31, 2021.² Pursuant to Article II, Section C.13.d. of the Amended Settlement Agreement filed in Docket No. 4770 and approved by the Rhode Island Public Utilities Commission ("PUC") at its Open Meeting on August 24, 2018, the Company must provide quarterly reports to the PUC regarding its IT capital projects and investments. The IT Quarterly Report provides an explanation of the following: the Narragansett Gas and Electric overall IT investment plan approach and status; descriptions of program investment categories; a comparison of budgeted to actual spending, including explanations of variances; identification of allocations to the Company; and a report on any budget exceptions.

IT capital projects and investments that are shared investments across National Grid USA's ("National Grid") operating companies are implemented and owned by National Grid USA Service Company, Inc. ("Service Company"). The costs of these shared investments are allocated to the benefiting US operating companies, including Narragansett Electric and Narragansett Gas, in the form of Service Company rent expense once the investments are inservice. The Service Company rent expense includes a return on the capital investment (net of deferred taxes) plus booked depreciation expense.

The IT Capital Investment Plan for Fiscal Year ("FY") 2022 ("FY22 Plan") upon which the budgeted spending reflected in this IT Quarterly Report is based is comprised of in-flight projects that will require capital spending for completion and new projects that will be sanctioned and incur capital charges during the fiscal year. In total, the FY22 Plan reflects Service Company capital expenditures of \$271.3 million across National Grid's US operating companies.

II. Development and Approach of the IT Capital Investment Plan

To determine which projects to include in the FY22 Plan, IT engaged in an iterative process that involved collaboration with Jurisdictional representatives and the functional business areas (*e.g.*, Operations, Customer and Digital, Network Strategy and Finance and Shared Services) to identify the investments of highest priority for inclusion in the Plan.

¹ The term "Company" refers to The Narragansett Electric Company's electric and gas distribution operations on a collective basis. The electric and gas operations of The Narragansett Electric Company together represent the entirety of the regulated operations conducted in Rhode Island by the Company. In this report, the regulated entity is referred to as the Company. Where there is a need to refer to the Company's individual electric and gas distribution operations, the terms "Narragansett Electric" or "Narragansett Gas," respectively, are used in this report.

² The third quarter of Rate Year 3 is March 1,2021 through May 31, 2021 ("Q3").

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The FY22 Plan assesses infrastructure requirements, sequencing, resource availability and capability, size and impact of investment requests and the overall benefit of the investments. Specifically, IT did the following to develop the FY22 Plan:

- First, IT identified the amount of work remaining and the delivery timeline for in-flight multi-year investments.
- Second, IT added new investments to address compliance with a legal or regulatory requirement/mandate or an open corporate risk.
- Third, IT added investments that focused on IT infrastructure and would create reliability in systems and fix foundational capabilities necessary for the Company's operational and/or future aspirations. These investments were ones that primarily upgraded, replaced, or added investment capabilities necessary for operational and/or future aspirations of the business.
- Finally, IT worked closely with the Jurisdiction and business functions to prioritize their project requests.

After this analysis, IT distributed a draft investment plan to business functions, Jurisdictional representatives and other key stakeholders for feedback on the FY22 Plan. A final Investment Plan review occurs each fiscal year with the Jurisdictional Presidents, Jurisdictional delegates, and business functions. Once the Jurisdictional Presidents and business function executives review and approve the Investment Plan, the consolidated financial information from the Plan, which is organized by jurisdiction and company, is incorporated with the IT operation and maintenance ("O&M") requirements into the IT budget. The IT budget is then reviewed and approved by the Jurisdictional and Enterprise Chief Information Officers ("CIO"), Global CIO and Corporate Finance. The IT budget is then incorporated into a consolidated National Grid budget.

III. Program Categories/Spending Rationales

The Company's FY22 Plan is organized by major program spending category/spending rationale. The Company classifies IT capital projects into the following program categories/spending rationales based on their primary investment driver:

- (1) Regulatory, Legal and Compliance Mandates;
- (2) Business Programs and Projects; and
- (3) Technology/Infrastructure Foundation and Reliability.

Descriptions of each program category and spending rationale are below.

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Regulatory, Legal and Compliance Mandates

This program category/spending rationale includes IT projects that are initiated annually as a direct result of, or are driven by, the need to comply with regulations, laws, tariffs, orders, agreements, or other matters promulgated by federal, state, or local governmental agencies.

Business Programs and Projects

This program category/spending rationale includes investments that are identified internally and required to meet the Company's needs and to provide service to customers. IT Business Partners work closely with the Jurisdictional Presidents and functional leadership on an ongoing basis to determine the Company's IT needs and the costs and timing for the required investments. The investments are then prioritized against overall expenditure targets.

Technology/Infrastructure Foundation and Reliability

This program category/spending rationale includes investments to replace and upgrade aged applications and infrastructure components required to enhance the Company's ability to improve operation of the electric and gas distribution systems and respond to evolving business and market demands. These investments will modernize the technology and infrastructure to support day-to-day business requirements, enable the delivery of new business programs, and ensure that the platforms are resilient to cyber security threats.

IV. Formal Sanctioning Support and Oversight of Projects Included in the Investment Plan

Throughout the year, IT projects are subject to a formal governance process that includes a review and approval for all projects greater than \$30,000. Within IT, there is an internal team that reviews all IT projects before forwarding the project to the appropriate sanctioning authority for approval using the following criteria:

- Projects less than \$1 million are approved by the CIO Enterprise Partnering or designee under the delegation of authority.
- Projects between \$1 million and \$25 million are approved by the U.S. Sanctioning Committee ("USSC").
- Projects between \$25 million to \$203 million are approved by the Senior Executive Sanctioning Committee ("SESC"), under delegation of authority by the National Grid USA's Board of Directors.

Typically, IT projects are sanctioned initially for Requirements and Design work (also referred to as Partial Sanction). IT projects then undergo a Development and Implementation sanction (also referred to as Sanction or Full Sanction). If project scope and costs are well understood (e.g., upgrades to hardware that do not necessitate requirements and design work or projects for which cost estimates can be reliably informed by similar previous installations), a project may

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proceed directly to "Full Sanction." If a project is forecasted to exceed its sanction amount, it must return to the appropriate Governance Committee for "Re-Sanction" consideration. When a project is completed, a "Closure" paper is prepared that details the financial and objective outcomes of the project.

The Investment Plan includes all IT projects that progress from initial Feasibility & Analysis phases to ultimate closure to plant in service, as defined below. The Investment Plan is supported by the formal sanctioning and governance process discussed above.

- **Feasibility & Analysis** A study conducted in cases where a significant level of analysis is required to better determine the direction or approach for a project. Because such a study is likely to have a significant impact on IT resources and spend, the effort is treated as a project to be included in the Investment Plan.
- Requirements & Design This phase includes requirements definition and completion of analysis, confirmed project scope, agreed functional design, and technology solution to meet business and technical requirements. This phase also includes the confirmed plan for Development and Implementation, confirmed production handover, support strategy, and sourcing approach.
- **Development & Implementation** This phase includes development to the specified designs, testing, preparation for training, deployment of the solution to the business, and post-implementation support.
- **Project Closure** This phase closes the project, including capturing ongoing run the business costs, completing post implementation review and lessons learned, closing open actions and change requests, implementing a decommissioning plan for replaced technologies, and submitting a closure paper to the appropriate sanctioning committee.

Cost estimates for projects that have completed the Requirements & Design stage with full scope and solution design generally have +/- 10% cost estimates. Other projects at earlier stages and the budgets for those projects are less refined and are more susceptible to changes in scope and budget. The projects in the IT Investment Plan are reviewed continuously for changes in assumptions, constraints, project delays, accelerations, and overall performance. The sanctioning process includes a further evaluation of the total expected costs of a project at key points in the project's lifecycle, including whether there is enough funding included in the annual budget. Changes to an individual project's scope are made only with approval of the Project Board established for each project, which consists of Project Sponsor, IT Project Manager and Business Client Lead. Changes usually are made to address changes in business requirements or to find a more cost-effective way to deliver the project according to the original project scope. IT projects with scope increases or decreases that are approved by the Project Board and result in

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the project exceeding pre-determined risk margin ranges of +/- 10% must be re-sanctioned at the higher or lower sanctioned amount.

V. Overview of Budget to Actual Spending for FY22 YTD

Attachment 1 includes projects placed in-service during the post-Historic Test Year through May 31, 2021 and the associated rent expense charged to Narraganset Electric and Narragansett Gas. As explained above, although project actuals reflect capital investment for the respective projects to date, allocation of rent expense to Narragansett Electric and Narragansett Gas is based on a return on and depreciation of the cumulative capital investment that benefits the Company and does not occur until an investment is placed in-service. As shown in Attachment 1, the Company will allocate rent expense of \$6,536,369 to Narragansett Electric and \$2,619,751 to Narragansett Gas for projects closed to plant in-service through the third quarter of Rate Year 3. National Grid evaluates the need for a deferral monthly and books in line with the Rate Year quarter end, as needed. To date, the amounts deferred for future recovery by National Grid for Narragansett Electric and Narragansett Gas are \$1,576,746 and \$464,229 respectfully.

Attachment 2 includes detail on budgets and actual spending for each of the major program spending categories and for the top ten projects (based on allocation to Narragansett) by budget within the program categories, including explanations of variances between budgets and actual spending for the April 2021 – May 2021 period. Since National Grid budgets on a fiscal year basis, which runs from April 1 – March 31, the project budget and actual information reflect the current fiscal year, and there is a summary of the top 10 projects within each category.

From April 1, 2021 to date, National Grid spent \$21.7 million compared to a total Service Company budget of \$21.7 million, which is on budget.

Details regarding activity in key programs and projects are below.

A. Business Programs and Projects

<u>Customer Billing Improvement Program - Phase 1 (INVP 5778)</u> - The program will improve the core customer billing ecosystem by managing the CRIS and CSS as target systems through replacement over the next several years. The Legacy applications CSS and CRIS must continue to deliver through the CIS replacement. Many of the system components are out of support, reaching maximum capacity and require investment to ensure infrastructure stability and operational efficiency. As there is a need to drive reduction of OPEX spending over the next 2 years, this project will change the operating models to focus on a DevOps construct with capacity focused on building enhancements and new capabilities, while driving efficiency in operations support.

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Planned improvements include:

- a. Infrastructure Stabilization through Customer Platform as a Service (CPaaS)
- b. Operational Effectiveness by upgrading systems to supported platforms
- c. Innovation Automation by adoption of industry standards, enable industry collaboration and reduction of manual processes.
- d. Data Management Application Modernization"

An evaluation of the most appropriate software solution is taking place and this is driving underspend to budget and will continue to do so until the solution is determined.

On My Way (EBU Digital Solution) Phase 2 (INVP 5054) - This Investment is for the design, prototyping, and development of a mobile and digital work dispatch features for the electric field force (line workers, supervisors) to improve the process of work assignment, update, and closeout during blue sky and storm conditions. The approach used is an agile and iterative MVP development approach that will deliver a set of product features at each phase and immediate benefits to the business. This product will be developed in the Azure cloud environment, React-Native framework, and integration will be completed through the use of middleware to connect to other existing core systems (STORMS, ARMS, OMS, GIS).

The project has been re-phased with our cloud services provider (DXC) required to deliver services later than originally budgeted hence driving the underspend to budget.

<u>Future Now (INVP 6076) - Next Phase</u> - Work planning in the Electric Business Unit (EBU) is a manual process involving multiple systems which are not fully integrated. In order to maximize benefits to customers and shareholders in an ever-changing regulatory climate, more sophisticated planning is necessary. FutureNow is a digital product that will allow us to create and manage an integrated TOTEX (capital and maintenance costs combined into one total value) portfolio of work efficiently, while maximizing strategic benefits for our cost expenditure.

The project is slightly over budget year to date due to third party vendor work completed.

MyHR 2.0 (INVP 5158) - The investment will result in the following outcomes

- Move to standard configuration and reinforce myHub as single trusted source of workforce data
- Address control issues through simplifying integrations and addressing workforce data inconsistencies between systems
- Improve the efficiency in our supporting Operating Model and enable FTE reduction
- Remove Joiners to Leavers complexity, improving user experience and process efficiency

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- Unlock standard reporting and full workforce analytics capability
- Define the workforce master data model, ownership and governance.

This project has been delayed due to re-prioritzation of the portfolio and is expected to start at the end of the next quarter.

<u>Financial Transformation (FTOM) - Record To Report (US) (INVP 6289)</u> - This strategic program will address Finance Reporting Program Improvements, Data Modelling and Process Automation.

The business plan was for this project to commence in Q2 although the budget was phased from the start of the fiscal year.

<u>Veg Management Optimization (INVP 6073)</u> - This digital project seeks to maximize the value of National Grid's vegetation management programs. The product aims to provide the capability to plan tree pruning activities based on condition, using advanced analytics and other available technologies, instead of pruning on fixed time cycles, and to assess technologies to maximize value during the execution of the pruning activities. The product also seeks opportunities to drive value in the hazard tree program management, in terms of both planning and execution.

The underspend year to date was due to a vendor invoicing issue which has now been resolved.

<u>ICU-Out (Electric Digital) (INVP 6291)</u> – This Investment is for the design, prototyping, and development of an advanced customer outage analytical and visualization tool to accelerate power restoration, reduce costs, and provide better services to customers.

The project underspent as it is looking to procure to the appropriate resources to do the work.

<u>GridMD (INVP 6294)</u> – This Investment is for the design, prototyping, and development of an asset maintenance predictive solution that will reduce spend on inspections, improve asset data, and improve reliability.

This is essentially a funding bucket for digital projects and funds will be re-allocated to those projects through the Budgets Exceptions Requests process.

<u>Predictament (INVP PD22)</u> - Prioritization of maintenance activities across asset classes based on asset risk/condition and criticality using predictive modeling. The benefits to be derived from this project are as follows:

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- Optimized maintenance opex spend
- Increased reliability and safety: Helps avoid catastrophic failure through proactive issue identification, resulting in fewer reduced outages and reducing overall NG risk
- Increased efficiency: Identifies problem locations, resulting in efficient crew dispatch
- Increased customer satisfaction: Avoids some outages

This project has been re-prioritized to start later in the year. Work is ongoing to see if this should be included in the Future Now project.

My Business Account (Nucleus Phase 2) (INVP 5673) - This project focus is on reengineering the National Grid commercial and industrial customer applications and digital interactions to create a streamlined and seamless customer experience throughout the customer journey. It will maximize customer and company benefits from technical capabilities delivered through INVP5905 - Nucleus (Customer Digital Solution) in FY21, which was focused on improving the customer experience during the billing and payment process. This project will enhance existing transaction capabilities and account management tools to support the unique C&I customers' needs for multi-account management. The project will help manage future operating costs through the migration of C&I customers to self-service channels and through reengineering of process and transactions.

The project is slightly underspent due to a delivery change so Securion costs will be incurred later than originally planned.

B. Regulatory, Legal, and Compliance Mandates

<u>Physical Security (INVP 6244)</u> - Physical Security is responsible for protecting National Grid's personnel and assets and incorporates a security system as part of the overall security plan. To fulfill this responsibility, it is necessary to ensure that all security-related equipment and assets are in good condition. This project represents the annual capital budget to maintain National Grid's physical security assets (*e.g.*, facility access card readers, security cameras, and alarm systems) in reliable working condition.

This is a funding bucket for physical security. Budget Exception Requests are being used to reallocate funds to individual physical security projects as they arise. The budget is phased throughout the year hence the underspend to date.

<u>Identity and Access Management (INVP 5870)</u> – Identity and Access Management (IAM) is a fundamental control in protecting our systems, data and Critical National Infrastructure (CNI) from cyber risks. IAM is about making sure that our global

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workforce has access to only the systems and data that they need, when they need it. Access is provided quickly and removed when no longer required. This project will implement a single capability and Access Control Group that will integrate the business and process aspects of IAM. Provisioning and de-provisioning will be automated. The top applications will be migrated from the legacy Single Sign On to new enterprise tooling.

Spend has been accelerated to acheive targeted state sooner than originally planned given the priority of this project.

<u>FY22 Platform Tower (INVP 6210US)</u> - This annual program sanction describes the work to be undertaken by the Platform Tower for the financial year 2022. The Platform Tower focuses on preventing opportunities that allow malicious actors to cause disruptions to National grid operations across all workstation, server and cloud platforms. This requires continual update to cyber defences. The program identifies the work that needs to be undertaken to continue to design, develop, deliver and support technologies to ensure that all computing platforms used by National Grid are conforming to a consistent and effective set of safeguards.

Project is currently underway with capital expenditure under-budget due to a focus on operating expense activities. Capital expenditure is expected to catch up in Q4.

<u>US Strategic Risk Remediation (INVP 5933)</u> - Security Risk Assessments are currently underway to identify and assess risks within the US Gas and Electric Businesses. The risk assessments have identified current capabilities across people, processes and technology is currently limited. In order to achieve a level of Security resilience in line with National Grid's risk appetite, improvement opportunities exist to increase the cyber security capability and further secure the Electric and Gas environments. Vulnerabilities exist within the Gas and Electric environments which could lead to unauthorized access, service disruption or loss of control of assets within the OT Environments, critical gas sites, LNG Environments, Gas CNI environments, Non-Nerc Transmission, Distribution OT environments, medium and low impact electric OT environments, CNI EMS/OMS environments and control centre environments."

Start-up activities activities are underway and select resources are on-board. Additional resources are being on-boarded and project plans to commence implementation later this year.

<u>FY22 Network Tower (INVP 6211US)</u> - Network security program FY22 aims to improve National Grid's network security to protect, detect and respond to digital network attacks by implementing a number of projects to improve network infrastructure and cloud security.

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The Network Security Team prioritized the execution and completion of the FY21 Network Security Program. The FY22 Network Tower work will commence, upon completion.

Customer Contact Center Technology Upgrade Implement Solution (INVP 3932) –

This project will replace core Call Center technologies, hardware, and software that were being utilized by National Grid's U.S. Customer Contact Centers and third-party vendors or shared among other business units, such as Dispatch, Accounts Processing, Payroll, Procurement, Human Resources, and Collections. These technologies are either no longer supported by the vendor or not available in the market. Some of the technologies that will be replaced with upgraded offerings and transitioned to a consolidated vendor support model include the Automatic Call Distribution system, Interactive Voice Response, Computer Telephony Integration, Call Center Workforce Management, and Call Recording/Quality Monitoring.

There are two phases to this project. Phase one, which deployed core functionalities at the Contact Centers, was completed in July 2019, and the project is now in phase two. As part of phase two, the Company will implement added scope to enable third-party vendors addressing certain call types to manage call volumes onto the new platform. Before implementation of phase two the Company will be adding capacity and resilience to the platform to enable the best possible service for customers.

Delays experienced in software delivery to the third party agents meant milestones were not met. Associated payments have been delayed until the software is delivered resulting in an underspend of \$1.1 million.

Security Orchestration Automation & Response (INVP 6245) – SOAR combines Log Management, Security Information Management and Security Event Management capabilities in a single system. It automatically collects and processes information from various sources and correlates activity across all events to generate alerts and reports. The platform includes behavioural analytics for the detection of insider threats and unknown attack patterns and provides automation and orchestration opportunities that enable the reduction in the meantime to remediate identified risks.

This investment will enhance existing Cyber Security Services to provide a holistic analysis of the National Grid network, endpoint, application, data, and infrastructure activity logs for the Cyber Security Operations & associated teams and deliver continuous improvements to National Grids capability to Prevent, Detect & Respond to Security Incidents.

The project is currently in start-up and finalizing enhancement and capability expansion scope. We expect to acheive budgeted spend by fiscal year end.

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FCP Upgrade for CSS - Plan Forward (INVP 6066) - Plan Forward initiative to provide supported Windows 10 compatible software for contact centre agents who are converting from desktops to laptops to provide mobility in support of work from home or office-based operations due to COVID-19.

Delays in procurement of servers and resources has resulted in a small underspend to date.

<u>Electric MV90 Upgrade (INVP 5891a)</u> - This project will upgrade the current electric MV90 system to the current version of ITRON MV90 software replacing all out of support components and moving to a virtual platform hosted within the DXC data centre. A backup server and disaster recovery environment will be established to ensure availability and recovery of the system in event of a system failure.

Project is underspent to date due to setting up servers by DXC taking longer than anticipated and another vendor, Verizon was delayed in setting up their billing. This will be temporary and the project will be back on budget.

Operational Excellence - Meter Data Services (FCS Upgrade) (INVP 5891c) -

Upgrade the current ITRON Field Collection System (FCS) which supports the collection of customer meter reading, both via van (AMR) and manually probing, with the latest version of the application. Implement the new ITRON mobile subscription service, including configuring and roll-out of 10 mobile vans/50 mobile manual proble devices. Upgrade middleware to use Mulesoft and implement new integration to the ITRON cloud.

C. Technology/Infrastructure Foundation and Reliability

<u>Infrastructure & Operations US Networks FY22 (INVP 6197)</u> - The portfolio will be performed using the Scaled agile framework (SAFe) through the Agile Release Train (ART). Analysis within the US Networks/Telecommunications space has been completed to identify the priority initiatives to be delivered by the ART in FY22. The ART will prioritize the effort to those initiatives and detailed scope that will deliver the best business benefit while ensuring all activities and annual targets are met within the time and cost frame.

Invoicing for cabling was re-planned to occur later in the project timeline hence the underspend to budget to date.

<u>Infrastructure & Operations US Data Center Transformation FY22 (INVP 6223)</u> -

The Data Center Transformation program will build a new foundation for our computing assets and will replace a complex and fragile set of facilities and infrastructure. It will also include a significant redistribution of computer workloads from obsolete environments to the new Data Center or other Cloud based services.

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<u>IT Application Retirement Program (INVP 6297)</u> - The IT program is focused on streamlining and reducing our application footprint and eliminating technical debt associated with end of life and legacy applications. Applications have been dispositioned and projects will be setup under the program to help us achieve the planned end state, including decommissioning of 100+ applications and focusing on the following:

- License reductions
- Platform Consolidations
- Decommissioning and rationalizing our application footprint

Infrastructure & Operations US Operations FY22 (INVP 6196) - This project looks to ensure a value-driven iterative approach to implement new capabilities across key end user services that users will interact with on a daily basis. The project will leverage emerging technologies to provide value. National Grid must improve operational capabilities to meet these capabilities challenges. Currently, National Grid does not have the capabilities to proactively monitor or react to system down conditions.

Monitoring of capabilities is spread across multiple operations centers that do not provide a holistic view of IT systems availability. The records stored about applications, computers, and servers are insufficient to conduct daily operations without extended downtime and rework when problems occur. Additionally, the hardware refresh cycle must be accounted for to ensure personnel have the supported computers required to perform their daily job roles. Each of the above concerns is addressed through the implementation of Digital Operations capabilities, a standardized operations center across all areas requiring monitoring, and hardware refresh.

- Automated Application Maintenance
- Disaster Recovery
- Configuration Asset Management Database Overhaul
- Unified Network Operation Center (iNOC)
- Application Maintenance Automation
- Device Break-fix and Refresh

IBM & WIPRO charges were made to projects 5489A & B and will be reclassified to this project to bring it back on budget.

<u>Infrastructure & Operations US Cloud and Hosting FY22 (INVP 6200)</u> - Provide management of infrastructure in a Hybrid Cloud environment, On Premise Data Centers, and Hosted Data Centers to ensure compute power to run mission-critical applications. This investment will deliver a modular, secure, stable and modern infrastructure to facilitate business value while focusing on reducing technical debt and modernizing IT Infrastructure.

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<u>Infrastructure & Operations US End User Experience FY22 (INVP 6198)</u> - The End User Experience investment looks to ensure a managed approach to maintain current and appropriate performance levels across key end user services that users interact with on a daily basis, while also looking at emerging technologies to identify opportunities for additional value.

Work was charged to a tempory accounting code while this project was being set up and will be reclassified when the accounting is in place.

Enterprise Architecture Foundation Increased Capability (INVP 6260US) - EA Foundations is an investment that captured several new foundational and enabling capabilities to drive IT and the Business. These capabilities include but are not limited to, Artificial Intelligence/Machine Learning, Containerization, Deidentification and Document Management.

A proof of concept is being drafted and the project will begin to charge capital expenditure once this has been approved.

<u>Cloud API Migrations Phase 2 (INVP 5899a)</u> - Consolidation of integration services from depreciated and heterogeneous integration platforms into a single strategic integration platform - MuleSoft. MuleSoft platform allows National Grid IT to improve data exchange between internal and external applications and systems; modernize integration capabilities and better position IT to respond to a growing demand in the integration space.

Additional Licensing costs were added as new software GoAnywhere was added to the project.

<u>IT Enterprise Project Mgmt Office (PMO) (INVP 6263US)</u> - This investment will fund enhancements to the Project Online (POL) platform. POL was released in 2017 as the enterprise PPM solution for running IT Projects & Programs. This investment adds to enhancements performed in FY2021.

This project is currently on hold as a review is taking place to identify if this project needs to go ahead or if the budget should be shifted to the Jira Align project.

Global Solution Delivery Engineering Lab/Data Synchronization (INVP 6257US) - Build/improve test lab environment to increase delivery capability and the ability to perform simulations, resulting in better vetted and tested solutions.

This project has been descoped by Solution Engineering. The functionality is now bundled in with 6260US and 6255US

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Attachment 3 and Attachment 4 provide details on discontinued investments that are no longer being pursued in the current fiscal year and emerging projects (*i.e.*, walk-ins) approved for inclusion in the FY22 Plan as part of the Portfolio Calibration Management process discussed below.

VI. Portfolio Calibration

IT utilizes a formal monthly process referred to as the "Portfolio Calibration Management" process to manage requests for new or additional project funding beyond the FY22 IT Investment Plan budget. Each proposed project or existing project that is seeking incremental funding submits a budget exception request ("BER"), which is confirmed by the business sponsor and the IT Finance team with a final approval made by either the Head of Program Delivery or the Jurisidctional Chief Information Officer ("CIO"). The requests for new project funding (*i.e.*, walk-ins) occur for various reasons including, but not limited to, business priority changes and emerging regulatory mandates. Requests for additional funding on an existing project are generally driven by a project scope change, increase in project complexity, or acceleration of a multi-year project. A BER is also required to transfer funding from a program within the Plan that incorporates several IT projects or investments to the individual projects that will utilize the funding. BERs can utilize underspend from other IT projects or programs in whole or in part and can also be funded incrementally by a sponsoring business area budget.

<u>Attachment 5</u> includes a report on budget exception requests by program category and top ten projects based on allocation to the Company.

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Information Technology Capital Investment Quarterly Report
Rate Year 3 - Third Quarter Ended May 31, 2021
Attachment 1

Page 1 of 5

Narragansett Electric Company and Narrangansett Gas Company d/b/a National Grid IT Service Company Capital allocated to Operating Companies as Rent Expense Post HTY Through May 31, 2021

		l	l	1				1	1		Less IFA Salary	l			Less IFA Salary
Project Name	INVP#	Actual In Service Date	Allocation Code	Project To Date Cost	G Allocation	G Rent-Return	G Rent - Depn	E Allocation	E Rent-Return	E Rent - Depn	& Wage Allocator	T Allocation	T Rent- Return	T Rent - Depn	& Wage
INVP 4411A Distributed Generation Portal	4411A	05/15/17	C198	2,217,136	0.00%	-	-	14.22%	8,531	45,040	(7,317.76)	0.00%	-	-	-
INVP 4420 US CNI OMS-FocalPoint Infrastructure Upgrade	4420	05/23/17	G198	705,521	0.00%	-	-	15.03%	2,944	15,146	(2,471.21)	0.00%	-	-	-
INVP 3851 US Control - UNY Electric Control Rooms VoIP Phone Upgrade	3851	06/01/17	G181	353,785	0.00%	-	-	0.00%	-	-	-	0.00%	-	-	-
INVP 4451 Gas Transportation System Phase II	4451	06/30/17	G225	1,229,049	0.00%	-	-	0.00%	-	-	-	0.00%	-	-	-
S005242 M112 Systemic Improvement	0	07/10/17	G012	9,485,306	2.85%	10,240	27,030	6.60%	23,727	62,631	(11,796.50)	1.77%	6,344	16,747	(3,154)
INVP 4588 US SAP: Solution Manager Upgrade	4588	07/18/17	G020	360,956	2.85%	293	1,469	6.60%	679	3,405	(557.84)	1.77%	182	910	(149)
INVP 4307 US Win 7 Refresh Ph 3	4307	07/31/17	G020	13,039,925	2.85%	10,849	53,086	6.60%	25,138	123,004	(20,236.18)	1.77%	6,722	32,890	(5,411)
INVP 4392 PPMI	4392	08/04/17	G020	266,173	2.85%	221	1,084	6.60%	513	2,511	(413.06)	1.77%	137	671	(110)
INVP 4397 Ariba TLS and CI Update	4397	09/11/17	G020	1,727,180	2.85%	1,493	7,031	6.60%	3,459	16,292	(2,698.01)	1.77%	925	4,356	(721)
INVP 4683 RSA Token	4683	09/12/17	G020	536,718	2.85%	464	2,185	6.60%	1,075	5,063	(838.38)	1.77%	287	1,354	(224)
INVP 4632 US Video Conferencing upgrade for RW	4632	09/12/17	G020	1,856,973	2.85%	1,606	7,560	6.60%	3,722	17,517	(2,901.18)	1.77%	995	4,684	(776)
INVP 3839A NY Retail Access Mandate Phase	3839A	10/20/17	C170	4,830,132	0.00%	-	-	0.00%	-	-	-	0.00%	-	-	-
INVP 4676 Hix D/C Improvement Server Refresh	4676	10/21/17	G020	860,086	2.85%	778	3,501	6.60%	1,803	8,113	(1,354.60)	1.77%	482	2,169	(362)
INVP 3683B Cloud Security (Cloud Access Security Broker)	3683B	10/27/17	G020	127,560	2.85%	115	519	6.60%	267 789	1,203 3,543	(200.90)	1.77%	72	322	(54)
INVP 4577 Call Manager Upgrade INVP 4645 Refresh of network equipment at Verizon	4577	10/27/17	G020	375,605	2.85%	341	1,529	6.60%	/89	3,543	(591.82)	1.77%	211	947	(158)
supported Sites (transformed sites-core infrastructure sites)	4645	10/30/17	G020	323,529	2.85%	293	1,317	6.60%	680	3,052	(509.77)	1.77%	182	816	(136)
INVP 4757 Cloud Enhancements (Azure Core Service)	4757	10/31/17	G020	263,501	2.85%	235	1,073	6.60%	545	2,486	(414.00)	1.77%	146	665	(111)
INVP 3430 US Enterprise Mobility	3430	11/03/17	G020	1,017,559	2.85%	921	4,143	6.60%	2,134	9,598	(1,602.60)	1.77%	570	2,567	(429)
INVP 4217 US SAP: Business Planning	4217	11/13/17	G020	2,589,265	2.85%	2,346	10,541	6.60%	5,437	24,424	(4,079.01)	1.77%	1,454	6,531	(1,091)
INVP 4222 Governance Risk & Compliance (GRC) Optimization/Upgrade	4222	11/20/17	G020	2,464,347	2.85%	2,282	10,032	6.60%	5,287	23,246	(3,897.60)	1.77%	1,414	6,216	(1,042)
INVP 4400 Annual HR & Payroll Mandatory Service Pack Upgrade (HRSP) - FY18	4400	12/11/17	G020	1,243,084	2.85%	1,153	5,061	6.60%	2,671	11,726	(1,966.64)	1.77%	714	3,135	(526)
INVP 4688 Legacy DMZ Firewalls	4688	12/16/17	G020	558,001	2.85%	517	2,272	6.60%	1,199	5,264	(882.79)	1.77%	321	1,407	(236)
INVP 4449 EPA Portfolio Mgr	4449	12/29/17	C175	495,169	3.77%	621	2,667	6.94%	1,143	4,909	(826.71)	0.00%	-	-	_
INVP 4529 Service Now	4529	12/31/17	G020	2,086,939	2.85%	1,948	8,496	6.60%	4,514	19,686	(3,305.66)	1.77%	1,207	5,264	(884)
INVP 4972 Complex Cap	4972	01/08/18	G148	453,469	3.01%	447	1,950	7.00%	1,040	4,537	(761.81)	1.85%	275	1,200	(201)
INVP 4674 Log Logic	4674	01/10/18	G020	361,190	2.85%	342	1,470	6.60%	793	3,407	(573.75)	1.77%	212	911	(153)
INVP 4383 Community Choice Aggregation Reports	4383	01/19/18	C436	751,696	0.00%	-	-	0.00%	-	-	-	0.00%	-	-	-
INVP 4760 Mainframe DR Machine	4760	01/31/18	G020	431,275	2.85%	411	1,756	6.60%	953	4,068	(685.90)	1.77%	255	1,088	(183)
INVP 4377A Data Centre Migration & Capacity Increase	4377A	01/31/18	G020	858,609	2.85%	819	3,495	6.60%	1,897	8,099	(1,365.53)	1.77%	507	2,166	(365)
INVP 5029 DXC Capacity Increase	5029	01/31/18	G020	511,178	2.85%	488	2,081	6.60%	1,130	4,822	(812.98)	1.77%	302	1,289	(217)
INVP 3718 New Medical System	3718	02/08/18	G027	379,378	2.86%	373	1,553	6.64%	865	3,601	(609.93)	1.77%	231	960	(163)
INVP 4280 US VSTIG Bandwidth Ph2	4280	02/23/18	G020	2,294,027	2.85%	2,259	9,339	6.60%	5,233	21,639	(3,670.78)	1.77%	1,399	5,786	(982)
INVP 4124 Auto Remote Net Meter	4124	02/23/18	C198	2,015,289	0.00%	-	-	14.22%	9,938	40,939	(6,949.88)	0.00%	-	-	-
INVP 4124 Auto Remote Net Meter	4124	02/23/18	G181	1,368,153	0.00%	-	-	0.00%	-	-	-	0.00%	-	-	-
INVP 4274 VSTIG Hardware Refresh	4274	02/23/18	C175	403,507	3.77%	520	2,173	6.94%	957	4,000	(677.21)	0.00%	-	-	-
INVP 4464 Data Visualization	4464	03/16/18	G020	8,182,819	2.85%	8,087	33,313	6.60%	18,738	77,187	(13,103.40)	1.77%	5,010	20,639	(3,504)
INVP 3901 Virtual Desktop Offshore	3901	03/20/18	G020	253,047	2.85%	258	1,030	6.60%	597	2,387	(407.60)	1.77%	160	638	(109)
INVP 4680 WAP Density deployment	4680	03/28/18	G020	2,127,711	2.85%	2,146	8,662	6.60%	4,972	20,070	(3,420.84)	1.77%	1,330	5,367	(915)
INVP 5167 Customer Data Visualization DG Expansion INVP 4891 Customer Data Visualization Expansion	5167 4891	03/30/18 03/30/18	G186 C175	374,837 700,389	0.00% 3.77%	943	3,772	11.77% 6.94%	1,577 1,737	6,305 6,944	(1,076.61)	3.35% 0.00%	449	1,795	(307)
All Companies Physical Security Replacements - FY18	4891 N/A	03/30/18	G020	3,263,492	2.85%	3,245	13,286	6.60%	7,519	30.784	(5.232.18)	1.77%	2,010	8.231	(1.399)
INVP 4705 - NG Labs	4705	03/31/18	G020	112,249	2.85%	113	457	6.60%	262	1,059	(180.47)	1.77%	70	283	(48)
INVP 4749 VSTIG Hardware Refresh - IDS Card Replacement	4749	03/31/18	G020	147,975	2.85%	149	602	6.60%	346	1,396	(237.91)	1.77%	92	373	(64)
INVP 3644 Internet Explorer Upgrade	3644	03/31/18	G020	250,447	2.85%	253	1,020	6.60%	585	2,362	(402.66)	1.77%	156	632	(108)
INVP 4771D Risk Software for CCDI	4771D	04/01/18	G148	55,183	3.01%	59	237	7.00%	138	552	(94.27)	1.85%	37	146	(25)
INVP 4779 Time Entry and Approval Mobility Enablement	4779	04/23/18	G020	4,181,291	2.85%	4,342	17,022	6.60%	10,060	39,441	(6,761.91)	1.77%	2,690	10,546	(1,808)
INVP 4662 - Concur Licenses	4662	04/23/18	G020	2,675,114	2.85%	2,778	10,890	6.60%	6,436	25,234	(4,326.15)	1.77%	1,721	6,747	(1,157)
INVP 4364 Wireless Network	4364	05/01/18	G020	2,404,447	2.85%	2,474	9,789	6.60%	5,732	22,681	(3,881.20)	1.77%	1,533	6,065	(1,038)
INVP 3614D1 Ent Network Security	3614D1	05/01/18	G020	10,767,752	2.85%	11,079	43,836	6.60%	25,670	101,571	(17,381.07)	1.77%	6,864	27,159	(4,648)
INVP 4759 MTC and Syracuse Boardrooms & Auditoriums	4759	05/01/18	G020	294,841	2.85%	306	1,200	6.60%	709	2,781	(476.81)	1.77%	190	744	(127)
INVP 3956 WIFI for Fleet Services Diagnostic Laptops	3956	05/01/18	G352	520,569	0.00%	-		0.00%	- 2.452	- 12.657	(2.225.22)	0.00%	- 022	- 2.552	- (
INVP 4289 US Network Improvement INVP 4584 Electric Demand Response Management System	4289 4584	05/01/18 05/01/18	G020 G198	1,447,842 291,310	2.85%	1,490	5,894	6.60% 15.03%	3,452 1,595	13,657 6,254	(2,337.09)	1.77% 0.00%	923	3,652	(625)
Integration				·							* * * * * * * * * * * * * * * * * * * *				
INVP 4411B Distributed Generation NE	4411B	05/03/18	C284	1,469,928	0.00%	-	-	27.18%	14,558	57,075	(9,785.06)	0.00%	-	-	-

Information Technology Capital Investment Quarterly Report

Rate Year 3 - Third Quarter Ended May 31, 2021

ILES EA Salary

Project Name INVP# Actual In Service Date Code Cost Allocation Code Cost Allocation Project To Date G Rent-Return Depn Allocation Code Cost Allocation Code Cost Allocation Code Cost Cost Cost Cost Cost Cost Cost Cost													Rate Y	ear 3 - T	hırd Qua	rter Ended l	May 31
TREE COLL For Annual Configuration from 16	Project Name	INVP#					G Rent-Return		_	E Rent-Return	E Rent - Depn	& Wage	T Allocation	T Rent-	T Rent -	Less IFA Salary & Wage	Attachr
The Section of Section	NVP 4421 - New Arrearage Forgiveness Plan	4421	05/04/18	G316	575,674	32.36%	6,725	26,611	67.64%	14.059	55,628		0.00%	-	-	-	Page
## 1970 MEDICAL Street Programs 526					1,675,058	0.00%	-	-		7,121			3,35%	2.028	8,023	(1,373)	1
Mode		5186		G020	372,350	2.85%	394	1,516	6.60%	913	3,512	(604.55)	1.77%	244	939	(162)	1
0.00	IVP 4480 US Control-Gas System Operating Procedure	4400	05/07/40	6246	255 511	7.200	50.1	2.550	0.000/				0.000/				l
Res 48 May 10 April 1997 199	GOP) Upgrade	4480	05/2//18	G210	256,611	7.28%	694	2,668	0.00%	-	-	-	0.00%	-	-	-	l
West Ministry and review framework (Month Ministry Ministr	IVP 4486 General Ledger Interface for CRIS to SAP	4486	06/22/18	G384	612,821	0.00%	-	-	0.00%	-	-	-	0.00%	-	-	-	l
The Part Name of P	IVP 4448 NY Low Income Order - NIMO	4448	06/22/18	C195	3,563,941	0.00%	-	-	0.00%	-	-	-	0.00%	-	-		l
## 15 19 19 19 19 19 19 19	IVP 4975USE Identity and Access Management (IAM)	40351165	07/11/10	6020	706 975	2.050/	762	2.070	C C00/	1.767	6.669	(1.150.00)	1.770/	472	1.702	(200)	l
West Service Florage 1939 2077/18 2814 20.078 20.0000 20.000 20.0000 20.0000 20.0000 20.0	nified Platform	49/3U3E	0//11/16	G020	100,873	2.0370	703	2,070	0.00%	1,767	0,008	(1,132.23)	1.7770	4/3	1,765	(308)	l
WE STATES SHORT PROJECTION COURT TOTAL	IVP 4606 Data Visualisation Expansion	4606	07/12/18	G020	3,170,221	2.85%	3,421	12,906	6.60%	7,926	29,904	(5,167.55)	1.77%	2,119	7,996	(1,382)	1
70 A SEPA DESIGNATION AND ALL PROPERTY IN THE CONTRACT OF THE	VP 5159 NMPC Rate Case						-	-	0.00%	-	-	-		-	-	-	j
Wester Agent Section												(505.07)				(104)	j
29 MS PATEMENT 4857 993/471 5002 26.0077 2890 333 1.108 600% 771 2.000 67.500 1.778 290 72.0 1.175 290 290	VP 4478 Mobile Material Assistant Upgrade (MMA)											(170110)				(133)	1
97 944 Free Sanda Impresentation												(2,853.86)				(755)	1
19 2771 Expering & Analysis for CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC												(475.06)				(127)	j
W 2312 And Effective Oracle to CSD (MOCHAM) 2628 1310/9718 CSD 2250 1779 109 985 1310 1310 1310/9718 CSD 2710																	1
97 235 Careful Frozent Management Submitter Processor (1975) 1975 1985 1757 1776 1776 1776 1776 1776 1776 177														1,728	5,809	(1,030)	1
Proceedings														-	-	-	1
*** PRISE CASAGE File Int. Application ligigated Project ** *********************************		4828	10/09/18	G020	278,879	2.85%	272	1,589	6.60%	630	3,683	(589.20)	1.77%	169	985	(158)	4
A PRISE CAMPAIN SPACE ASPECTATION SPACE ASPECTAT		4750B	10/12/18	C175	489.978	3,77%	785	2.639	6,94%	1.445	4.858	(860.97)	0.00%		_	_	1
W 988 double-MARS W 988 11/14/18 720 335.361 0.00% 0.00% 3.58% 519 1.715 0.00% 0.00							763	2,007									4
W 2714 Control Management (Ordinal Park Management (PAM) 11/90/28 5188 1.799.56 3519 1.799.56 3519 1.799 1.7							-	-		2,371	7,840	(1,394.82)				(570)	4
We 986 American He Psyriot Mendeloxy Service Pack 986 17/10/18 6070 1,092-00 2,85% 1,007 4,447 6,60% 3,108 10,000 (1,840.44) 1,77% 847 2,755 (197) 97-210-210-210-210-210-210-210-210-210-210							-	-		-	-	-				(505)	4
1997 1995 1996 1996 1997 1996 1996 1997 1996 1997		4771A	11/30/18	G148	1,789,564	3.01%	2,366	7,695	7.00%	5,504	17,904	(3,197.52)	1.85%	1,455	4,734	(845)	1
93 December 12/11/18 600 767-618 2.85% 961 3.125 6.69% 2.226 7.241 (1.255.19 1.77% 591 1.916 (1.455.19 1.77% 1.916 (1.255.19 1.77% 1.916 (1.255.19 1.77% 1.916 (1.255.19 1.77% 1.916 (1.255.19 1.77% 1.916 (1.255.19 1.77% 1.916 (1.255.19 1.255		4965	12/10/18	G020	1.092.462	2,85%	1.367	4.447	6,60%	3.168	10.305	(1.840.44)	1.77%	847	2.755	(492)	1
## 221405 MP Prolege Access Management (PAM) ## 221405	,									·							4
2014 2014		4706	12/11/18	G020	767,618	2.85%	961	3,125	6.60%	2,226	7,241	(1,293.19)	1.77%	595	1,936	(346)	1
### Commendation Position 523 1778/18 65110 65115		5214115	12/12/18	6020	784 152	2.85%	981	3 192	6.60%	2 274	7 397	(1.321.04)	1 77%	608	1 978	(353)	l
WF 2950 Design Proceeding					· ·		,01	-			·	(1,521.01)		000	1,770	(333)	1
## 2411C 07/28/19 C 19/8 1.69/3.43 0.07% - 1.22% 9.74 29.89 (5.371.51) 0.07% - - ## 2510 R for Francisco Ernal 5180 0.1/28/19 C 343 516.723 0.07% - - ## 2510 R for Francisco Ernal 5180 0.1/28/19 C 343 516.723 0.07% - - ## 2512 R for Francisco Ernal 5180 0.1/28/19 C 323 516.723 0.07% - - ## 2512 R for Francisco Ernal 5180 0.1/28/19 C 320 3.18.484 2.278 3.88% 1.129 C 3.00% 5.4 3.004 (5.90.5) 1.77% 2.55 503 (1.55) ## 2512 R for Francisco Ernal C 3.00% - - ## 2512 R for Francisco Ernal C 3.00% C 3.00% -						0.000.0	-		0.00.0		_	-		-	-	-	ı
97 316 of User 1 1530 effects 5180 01/28/19 NO12 2.234,238 A09h 1.90 0.00h 1. 0.00h 1. 0.00h 1. 0.00h 1. 0.00h 1. 0.00h 1. 0.00h 1. 0.00h 1. 0.00h 1. 0							3,050	9,608				(.,,		1,889	5,953	(1,071)	į.
## 5316 to \$1,31/19 NO12							-	-		9,474	29,849	(5,371.51)	0.0070	-	-	-	į.
WP SSED Data Visualization tools & Licensea 5582 0.131/19 6002 318.88/ 285% 412 1.27% 6.0% 594 3.004 (\$46.65) 1.77% 255 883 (145) 97 4405 Gis Capacity Request Database 4488 0.2/12/19 C20 19.57.76 2.85% 23 79 6.0% 586 1.841 (332.33) 1.77% 1.75 494 (80) 97 430 Ost (Fine Propose Upgrade 5120 0.2/15/19 6272 859.881 0.00% - - 0.00% - - 0.00% - - 0.00% - - 0.00% - - 0.00% - - - 0.00% - - - 0.00% - - - 0.00% - - - 0.00% - - - 0.00% - - - 0.00% - - - - 1.75 5.75 0.75 0.00% - - - -							-	-		-	-	-		-	-	-	ı
PR 4003																-	į.
98465 Gas Capacity Request Database		5582	01/31/19	G020	318,484	2.85%	412	1,297	6.60%	954	3,004	(540.63)	1.77%	255	803	(145)	į.
## 486 Gis Capacity Request Database		4003	02/05/19	G020	195,776	2.85%	253	797	6,60%	586	1.847	(332,33)	1.77%	157	494	(89)	l
VP 312 MS PERF Phone Upgrade 5120 727 S89,881 737 O00% - 18,87% 73.99 73.18 73.19 73.10 73.10 73.10 73.10 73.10 74.14 EMM Ph 9a-2 74.14											, ,	(,				(/	ł
VP 4714 MM Phase 2 4714 4714 4714 4718 4716 4716 4716 4717 4718 4718 4719 4718 4719 4718 4719 4718 4719 4718 4719 4718 4719 4718 4719 4718 4719 4718 4719 4718 4719 4718 4718 4719 4718 4718 4719 4718 4719 4718 4719 4718 4718 4719 4718 4718 4719 4719 4718 4718 4719 4718 4719							4,827	15,207	0.000		-		010070	-	-		ł
\text{VP 497SUSA Perimeter enhancements} \qquad 497SUSA \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qqquad \qqqq\qqqq\qqqq\qqqq\qqqq\qqqq\qqqq\q							-	-									ł
W 3868 SA SPORT Database - 1. 3348					,,				0.00.0	,		(=,0,7100)		-,	- /	(0.0)	ł
\text{VF 3948 Gas Service Database-L L \text{3948 Gas Service Database-L L \text{3948 Gas Service Database-L L \text{3948 Gas Service Database-L L \text{3973 CL SIGN SCADA Upgrade} \text{3737 C SIGN SCADA Upgrade} 3737 C SIGN												(175.50)		250		(132)	ł
\text{VP 3737 U.S.NI GMS SCADA Dygrade} \text{3737} \text{37371.19} \text{2.20} \text{16.211.894} \text{7.37%} \text{54.586} \text{170.688} \text{8.000%}							2,305	7,148		5,340	16,563	(2,991.88)		1,428	4,429	(800)	ł
VP 4451 DMISSI Interface migration							-	-		-	-	-		-	-	-	ł
VP 4411C New Electric Connections										-	-	-				-	ł
\text{VP 4975USG Gateway Upgrade US} 4975USG 03/31/19 GQ20 495,719 2.85% 661 2.85% 661 2.85% 6.886 6.69% 3.208 1.5956 (2.617.80) 1.77% 858 4.266 (700) VP 5175 V fas Service Catalogue 53715 04/26/19 6020 306,872 2.85% 4.15 1.29 6.60% 3.208 1.5956 (2.617.80) 1.77% 858 4.266 (700) VP 5175 V fas Service Catalogue 5314 04/26/19 6020 306,872 2.85% 415 1.29 6.60% 600% 602 2.85% 534 1.064 6.60% 819 2.466 (4.855) 1.77% 219 659 (1.4875) 1.77% 219 659 1.885 659 1.281 3.885 6.60% 1.281 3.885 4.091 1.77% 4.985 4.985 4.985 4.985 4.985 4.985 4.985 4.985 4.985 4.985 4.985 4.985 4.985 4.985 4.985 4.2							1,932	6,029						1,197	3,736	(6/4)	1
ysical Security 0 0 33/31/19 G020 1.208.204 2.85% 1.385 6.886 6.60% 3.208 15.956 (2.617.80) 1.77% 858 4.266 (700) P. 5175 NY Gas Service Line Inspection 5175 04/08/19 G020 951.856 0.00% 0.00%							-	-				(77 - 17)		- 100		-	ł
VP 514 De Service Line Inspection 5175 04/08/19 G207 951,856 0.00% - - 0.00% - - - 0.00% - - - 0.00% - - - 0.00% - - - 0.00% - - - - - 0.00% - - - - - 0.00% - - - - - 0.00% - - - - - 0.00% - - - - - - 0.00% - - - - - - - 0.00% - - - - - - - - -												(011100)				(227)	i
VP 5314 US eBond NSSR Service Catalogue 5314 04/26/19 6020 306.872 2.85% 415 1.249 6.60% 962 2.895 (\$26.83) 1.77% 257 774 (141) VP 4377 Data Centre Clearance D and I [MelvIlle) 43778 05/01/19 6020 261.390 2.85% 354 1.064 6.60% 819 2.466 (448.75) 1.77% 219 659 (120) VP 5313 US SZ6JAEC 7IA 5313 05/04/19 6020 40.80,522 2.85% 553 1.663 6.60% 1.281 3.854 (701.35) 1.77% 342 1.030 (188) VP 5199 JAK Upgrade 5199 05/17/19 6020 2.048.005 2.85% 2.771 8.337 6.60% 6.421 19.319 (3.51.59.9) 1.77% 1.717 5.166 (940) VP 5099 EPA Portfolio Manager Integration Phase 2 5099 06/14/19 6175 453.226 3.77% 823 2.441 6.94% 1.516 4.493 (820.87) 0.00%							1,385	6,886		3,208	15,956	(2,617.80)		858	4,266	(700)	l
VP 4377 Data Centre Clearance D and I (Melville)							-			-	-			-	-	-	ł
P 5313 US ZScaler ZIA 5313 05/04/19 G020 408,522 2.85% 553 1,663 6.60% 1,281 3,854 (701.35) 1,77% 342 1,030 (188) (P 5199 p) AIX Upgrade 5199 05/17/19 G020 2,048,005 2,85% 2,771 8,337 6.60% 6.421 19,319 (3,515.99) 1,77% 1,717 5,166 (940) (940) (947) (9509 EPA Portfolio Manager Integration Phase 2 5099 06/14/19 C175 453,226 3,77% 823 2,441 6.94% 1,516 4,493 (820.87) 0,00%												(/					l
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VP 5099 EPA Portfolio Manager Integration Phase 2 5099 06/14/19 C175 453,226 3.77% 823 2,441 6.94% 1,516 4,493 (820.87) 0.00% VP 4771 Complex Capital Delivery Phase 2 4771B 06/28/19 6148 2,207,831 3.01% 3.250 9,493 7.00% 7.562 22,088 (4,050.14) 1.85% 1.999 5,840 (1,071) VP 4750D CXT MyAccount MVP 4750D CXT MyAccount MVP 4750D CXT MyAccount Two way Outage SMS 4750G 07/11/19 C198 741,017 0.00% 14,22% 5,153 15,053 (2,760.20) 0.00%																	i
VP 4771 Complex Capital Delivery Phase 2 4771B 06/28/19 G148 2,207,831 3.01% 3,250 9,493 7.00% 7,562 22,088 (4,050.14) 1.85% 1,999 5,840 (1,071) VP 4750D CXT MyAccount MVP 4750D CXT MyAccount Two way Outage SMS 4750G 07/11/19 C198 741,017 0,00% 14,22% 5,153 15,053 (2,760.20) 0,00%														1,/1/	3,166	(940)	1
VP 4750D CXT MyAccount MVP 4750D CXT MyAccount TWO way Outage SMS 4750G O7/11/19 C198 741,017 0.00% 14.22% 5,153 15,053 (2,760.20) 0.00%														1.000	F 0.40	(1.051)	l
VP 4750G CXT MyAccount Two way Outage SMS mmunications 4750G 07/11/19 C198 741,017 0.00% 14.22% 5,153 15,053 (2,760.20) 0.00%												(/ /		1,999	5,840	(1,0/1)	1
mmunications 4/90G 07/11/19 C198 741,017 0.00% 14,22% 5,153 13,05 (2,760,20) 0.00%		4/50D	06/30/19	C175	/,028,000	5.77%	12,958	57,851	6.94%	23,853	69,678	(12,7/6.28)	0.00%	-	-	-	l
## 3683USP IAM Role Based Access Control 3683USP 07/11/19 G020 527,392 2.85% 735 2,147 6.60% 1,703 4,975 (912.19) 1,77% 455 1,330 (244) ## 3932 Agent and Interactions Management System 3932 07/17/19 C175 18,634,710 3,77% 34,357 100,361 6.94% 63,246 184,750 (33,876.26) 0,00% ## 3683USAQ Cloud Access Security Broker Phase 2 3683USAQ 07/31/19 G020 987,453 2.85% 1,396 4,020 6.60% 3,235 9,314 (1,714.27) 1,77% 865 2,491 (458) ## 4468 Box Mgmt Systems Replacement Delivery 4408 08/02/19 G149 9,676,378 2.87% 13,500 39,667 6.65% 31,297 91,962 (16,837.24) 1,78% 8,354 24,549 (4,495) ## 4761 US Foundation Hosting Renewal 4761 08/11/19 G020 10,359,674 2.85% 14,648 42,175 6.60% 33,340 97,721 (17,984.98) 1,77% 9,075 26,130 (4,895) ## 2526 AVISOld 3G Modem Replacement 5226 08/31/19 G434 2,677,932 4,94% 6,878 18,898 10,93% 15,220 41,819 (7,791.61) 0,00% ## 4772 Virtual Desktop DasS 4727 09/01/19 G020 611,500 2,85% 906 2,489 6.60% 2,099 5,768 (1,074.71) 1,77% 561 1,542 (287) 4975USF 11,678 4975USF		4750G	07/11/19	C198	741,017	0.00%	-	-	14.22%	5,153	15,053	(2,760.20)	0.00%	-	-	-	1
## 3932 Agent and Interactions Management System ## 3932 O7/17/19 C175 18,634,710 3.77% 34,357 100,361 6.94% 63,246 184,750 (33,876,26) 0.00%							70.5	214		·	·			155	1.000	(2.1.5)	l
## 95354 North Andover Storm Site												(712.17)		455	1,330	(244)	1
## 3683USAQ Cloud Access Security Broker Phase 2 3683USAQ 07/31/19 G020 987,453 2.85% 1,396 4,020 6.60% 3,235 9,314 (1,714.27) 1.77% 865 2,491 (458) ## 4408 Doc Mgmt Systems Replacement Delivery 4408 08/02/19 G149 9,676,378 2.87% 13,500 39,667 6.65% 31,297 91,962 (16,837.24) 1.78% 8,354 24,549 (4,495) ## 4761 US Foundation Hosting Renewal 4761 08/11/19 G020 10,359,674 2.85% 14,648 42,175 6.60% 33,940 97,721 (17,984.98) 1.77% 9,075 26,130 (4,489) ## 5226 AVLS - Old 3G Modem Replacement 5226 08/31/19 G434 2,677,932 4.94% 6,878 18,898 10,93% 15,220 41,819 (7,791.61) 0.00%							34,357	100,361						-	-	-	l
P 4408 Doc Mgmt Systems Replacement Delivery 4408 08/02/19 G149 9,676,378 2.87% 13,500 39,667 6.65% 31,297 91,962 (16,837.24) 1.78% 8,354 24,549 (4,495)							1 205	4.000				(0-0.05)		- 065	2.401	- (450)	1
P 4761 US Foundation Hosting Renewal 4761 08/11/19 G020 10,359,674 2.85% 14,648 42,175 6.60% 33,940 97,721 (17,984,98) 1.77% 9,075 26,130 (4,809)										-,				005		(150)	ł
VP 5226 AVLS - Old 3G Modern Replacement 5226 08/31/19 G434 2,677,932 4.94% 6.878 18,898 10.93% 15,220 41,819 (7,791.61) 0.00% - </td <td></td> <td>(10,037.21)</td> <td></td> <td></td> <td></td> <td>(1,175)</td> <td>i</td>												(10,037.21)				(1,175)	i
/P 4727 Virtual Desktop DaaS 4727 09/01/19 G020 611,500 2.85% 906 2,489 6.60% 2,099 5,768 (1,074.71) 1.77% 561 1,542 (287) /P 5600 ESG Migration to SFTP 5600 09/06/19 G440 317,545 29.07% 5,261 13,187 0.00% 0.00% /P 4975USF Internal Public Key Infrastructure (PKI) 4975USF 09/30/19 G020 879,754 2.85% 1,447 3,582 6.60% 3,352 8,299 (1,591.47) 1.77% 896 2,219 (426)												(17,984.98)		9,075	26,130	(4,809)	i
/P 5600 ESG Migration to SFTP 5600 09/06/19 G440 317,545 29.07% 5,261 13,187 0.00% 0.00% 0.00% 0.00%												(7,791.61)		-	-	-	i
/P 4975USF Internal Public Key Infrastructure (PKI) 4975USF 09/30/19 G020 879,754 2.85% 1.447 3,582 6.60% 3,352 8,299 (1,591.47) 1.77% 896 2,219 (426)								-,		2,099	5,768	(1,074.71)		561	1,542	(287)	l
			00,00,00						0.00.0	-	-	/	010070		-	-	ł
vr 4811 Supervisor Enablement irads koil-out 4811 10/21/19 6148 1,122,161 3.01% 1,973 4,825 7.00% 4,591 11,227 (2,160.64) 1.85% 1,214 2,968 (571)																(426)	1
	NP 4811 Supervisor Enablement iPads Roll-out	4811	10/21/19	G148	1,122,161	3.01%	1,973	4,825	7.00%	4,591	11,227	(2,160.64)	1.85%	1,214	2,968	(571)	i

Information Technology Capital Investment Quarterly Report

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	1	I	1	1		ı	1		1		Less IFA Salary	Rate Y			rter Ended N Less IFA Salary
Project Name	INVP#	Actual In Service Date	Allocation Code	Project To Date Cost	G Allocation	G Rent-Return	G Rent - Depn	E Allocation	E Rent-Return	E Rent - Depn	& Wage Allocator	T Allocation	T Rent- Return	T Rent - Depn	& Wage Allocator
IVP 4821 NY Tax Remittance and Reporting Corrections	4821	10/28/19	C195	1,310,105	0.00%	-	-	0.00%	-	-	-	0.00%	-	-	-
NVP 5310 NetMod Governance	5310	10/28/19	G020	756,379	2.85%	1,259	3,079	6.60%	2,917	7,135	(1,373.14)	1.77%	780	1,908	(367)
IVP 5089 Windows 10 Foundation Deployment	5089	10/30/19	N012	691,095	4.06%	1,511	5,612	3.83%	1,426	5,294	(917.86)	0.00%		-	-
IVP 5312 US SD WAN	5312	10/30/19	G020	1,274,893	2.85%	2,122	5,190	6.60%	4,917	12,026	(2,314.46)	1.77%	1,315	3,216	(619)
IVP 4910 MA DOR CRIS	4910	11/08/19	C310	1,005,000	0.00%	-	-	0.00%	-	-	-	0.00%	-	-	-
IVP 4910A MA DOR CSS	4910A	11/08/19	C277	711,975	0.00%	-	-	0.00%	-	-	-	0.00%	-	-	-
IVP 4563 US SAP FERC on HANA (FOH) Upgrade	4563	11/18/19	G020	5,221,764	2.85%	8,799	21,258	6.60%	20,387	49,256	(9,513.21)	1.77%	5,451	13,171	(2,544)
IVP 5260 Rubber Goods Testing Tracking System	5260	11/18/19	T186	407,302	0.00%	_	_	9.70%	2,336	5,644	(1,090.08)	1.00%	241	582	(112)
eplacement						=							241	302	(112)
IVP 5037 DG IOAP Phase 2 Screens C-F and CYME Server	5037	11/18/19	C198	350,583	0.00%	-	-	14.22%	2,948	7,122	(1,375.49)	0.00%	-	-	-
IVP 5712 Rate Case Data Scrub Application	5712	11/22/19	G020	710,070	2.85%	1,196	2,891	6.60%	2,772	6,698	(1,293.63)	1.77%	741	1,791	(346)
IVP 5702USB Secure Email Web Gateway	5702USB	11/30/19	G020	497,709	2.85%	839	2,026	6.60%	1,943	4,695	(906.75)	1.77%	520	1,255	(242)
IVP 4398 STORMS iScheduler Stabilization	4398	12/09/19	G160	14,016,806	4.56%	35,860	91,269	10.40%	81,784	208,152	(39,605.31)	2.91%	22,862	58,188	(11,071)
IVP 5379 Annual HR and Payroll Mandatory Service Pack	5379	12/09/19	G020	953,661	2.85%	1,607	3,882	6.60%	3,723	8,996	(1,737.42)	1.77%	996	2,405	(465)
pgrade (HRSP) FY20		,,		,		-,	-,		6,7.20		(-,)			_,	()
VP 5178 Nantucket Substation IS Network for Tesla	5178	12/12/19	541F	417,722	0.00%	_	_	0.00%	_	_	_	0.00%	_	_	_
attery and Solar Micro Turbine systems		, , .		.,.											
IVP 5360 Lease Accounting Updates and Contract	5360	12/13/19	G020	8,672,506	2.85%	14,613	35,306	6.60%	33,859	81,806	(15,799.90)	1.77%	9,054	21,874	(4,225)
lanagement															
NVP 3614B7 CNI Network Security US	3614B7	12/24/19	G020	6,794,336	2.85%	11,006	27,660	6.60%	25,501	64,090	(12,238.09)	1.77%	6,819	17,137	(3,272)
IVP 5177 MA Smart Program	5177	01/28/20	C277	2,751,134	0.00%	-	-	0.00%	-	-	(1.488.74)	0.00%	-	-	-
IVP 5502 Unix 51 Phase 2	5502	01/31/20	G020	811,444	2.85%	1,400	3,303	6.60%	3,244	7,654	(1,488.74)	1.77%	868	2,047	(398)
IVP 5311 NetMod Infoblox US	5311	02/21/20	G020	3,237,054	2.85%	5,651	13,178	6.60%	13,095	30,535	(5,959.76)	1.77%	3,501	8,165	(1,594)
IVP 5521A Verizon Aruba LAN and Wireless LAN (Waltham)	5521A	02/25/20	G020	3,372,117	2.85%	5,887	13,728	6.60%	13,641	31,809	(6,208.43)	1.77%	3,647	8,505	(1,660)
N/D 2424D Application Life and Administration Tables	3431B	03/31/20	G020	625,275	2.85%	1,104	2,546	6.60%	2,559	5,898	(1.155.21)	1.77%	684	1,577	(309)
IVP 3431B Application Lifecycle Management Toolset	3431B 0			290,676	2.85%	1,104	2,546 1.657	6.60%	, , , , ,	3,839	(678.64)		302	1,577	(309)
nysical Security	5487F	03/31/20 03/31/20	G020	923,007	2.85%	1,548	5,261	6.60%	1,129 3,586	12,189	(2,154,93)	1.77% 1.77%	959	3,259	(181)
IVP 5487F Legacy Device Refresh	346/F	03/31/20	G020	923,007	2.6370	1,346	3,201	0.0070	3,360	12,109	(2,134.93)	1.//70	939	3,239	(370)
IVP 3683USAP-IAM- Privilege Access Managment (PAM) -	3683USAP	03/31/20	G020	930,094	2.85%	1,643	3,786	6.60%	3,806	8,773	(1,718.38)	1.77%	1,018	2,346	(459)
AP/PowerPlan/Front Office Maintenance of Business													-		
MOB) - FY20	5375	03/31/20	G020	376,264	2.85%	665	1,532	6.60%	1,540	3,549	(695.16)	1.77%	412	949	(186)
IVP 5580 Managed Workspace Services Transition & Tx	5580	04/01/20	G020	4,696,293	2.85%	7,875	26,766	6.60%	18,247	62,019	(10,964.34)	1.77%	4,879	16,583	(2,932)
IVP 5361 ABB SENDOUT Server Upgrade	5361	04/03/20	C210	273,310	7.37%	1,248	2,878	0.00%	10,247	02,019	(10,904.54)	0.00%	4,079	10,363	(2,932)
IVP 3932 Contact Center_SDC Tech Upgrade	3932	04/30/20	C175	1,656,075	3.77%	3,914	8,919	6.94%	7,205	16,419	(3.226.99)	0.00%	-	-	-
IVP 4570 US CNI Tech Services-Network Equipment	3932	04/30/20	C1/3	1,030,073	3.7770	3,714	0,919	0.7470	7,203	10,419	(3,220.99)	0.0070		-	-
fecvele Replacements	4570	05/12/20	T186	10,105,498	0.00%	-	-	9.70%	61,449	140,033	(27,522.45)	1.00%	6,335	14,436	(2,837)
IVP 4914 EMS Lifecycle hardware and Software Upgrade	4914	05/12/20	T186	17,179,565	0.00%			9.70%	104,464	238,060	(46.788.77)	1.00%	10,770	24,542	(4.824)
IVP 4568 US CNI-EMS Lifecycle Hardware and Software	4568	05/12/20	T186	3,555,350	0.00%	-		9.70%	21,619	49,267	(9.683.04)	1.00%	2,229	5,079	(998)
IVP 5571 Gas Business Enablement Cyber Security						_			21,017	47,207	(2,003.04)		2,22)	3,077	(270)
nhancements	5571	05/29/20	G210	1,775,960	7.28%	8,196	18,468	0.00%	-	-	-	0.00%	-	-	-
IVP 4398 STORMS iScheduler Stabilization	4398	06/01/20	G160	593,928	4.56%	1.716	3,867	10.40%	3,914	8.820	(1.739.50)	2.91%	1,094	2,466	(486)
IVP 4408 DMS Replacement Delivery	4408	06/19/20	G138	4,556,171	2.94%	8,577	19,112	6.78%	19,799	44,118	(8,731.04)	0.00%	- 1,0>.	2,100	(100)
IVP 5753 US SAP: Fiori Upgrade Phase 1	5753	06/22/20	G020	840.149	2.85%	1,535	3,420	6.60%	3,557	7,925	(1,568,39)	1.77%	951	2,119	(419)
IVP 5367 Enable Dominion Pipeline Confirmations	5367	06/25/20	521G	298,259	0.00%	-	-	0.00%	-		- (1,000.03)	0.00%	-	-,,-	- (127)
IVP 4975USC Multi Factor Authentication US	4975USC	06/29/20	G020	2,238,995	2.85%	4,091	9,115	6.60%	9,478	21,120	(4,179.75)	1.77%	2,534	5,647	(1,118)
IVP 5278 Identity and Access Management Business									·						
nange Programme	5278	06/30/20	G020	5,467,638	2.85%	9,989	22,259	6.60%	23,146	51,575	(10,206.97)	1.77%	6,189	13,791	(2,729)
IVP 4750J Web Self Service	4750J	06/30/20	C175	13,110,855	3.77%	31,689	70,611	6,94%	58,335	129,985	(25,724.50)	0.00%	-	-	_
IVP 5461 Total Reward Statement	5461	07/21/20	G020	450,008	2.85%	831	1,832	6,60%	1,926	4,245	(842.96)	1.77%	515	1,135	(225)
IVP 5522A End User VPN Replacement	5522A	07/31/20	G020	1,572,767	2.85%	2,905	6,403	6,60%	6,732	14,836	(2,946,14)	1.77%	1,800	3,967	(788)
M P9 Refresh	5974	07/31/20	G020	1,459,414	2.85%	2,613	8,318	6.60%	6,055	19,273	(3,459,76)	1.77%	1,619	5,153	(925)
IVP 4998 Allegro Upgrade to Horizon	4998	08/01/20	G175	1,493,628	3.49%	3,379	7,446	7.88%	7,634	16,823	(3,340.86)	0.00%	-	-	-
icrosoft Teams	5981	08/14/20	G020	1,452,775	2.85%	2,684	5,914	6.60%	6,218	13,704	(2,721.37)	1.77%	1,663	3,664	(728)
VP 6037 US vSTIG Bandwidth Upgrade (10G)	6037	08/15/20	G020	1,672,251	2.85%	3,089	6,808	6.60%	7,158	15,774	(3,132.50)	1.77%	1,914	4,218	(838)
VP 5545 Learning Interfaces Integration with SAP							0.010		2.532						(202)
ccessFactors LearningLink	5545	08/17/20	G020	567,335	2.85%	1,140	2,310	6.60%	2,642	5,352	(1,091.96)	1.77%	707	1,431	(292)
ainframe Capacity Upgrade	6026	08/18/20	G020	1,951,687	2.85%	3,923	7,945	6.60%	9,090	18,410	(3,756.44)	1.77%	2,430	4,923	(1,004)
VP 4802 DocuSign	4802	08/24/20	G116	978,853	0.00%	-	-	0.00%	-	-	- 1	0.00%	-	-	- 1
-						0000	20.150		22.052	10.000	(0.505.50)			10.407	(2.545)
VP 5636 Storage Capacity Purchase and Configure for Use	5636	08/27/20	G020	4,949,662	2.85%	9,949	20,150	6.60%	23,052	46,689	(9,526.69)	1.77%	6,164	12,484	(2,547)
IVP 4990 Primavera Upgrade Stabilization	4990	08/31/20	X148	5,334,504	4.44%	16,706	33,836	4.74%	17,835	36,122	(7,370.52)	0.14%	527	1,067	(218)
IVP 5317US Employee Digital Workplace US	5317US	09/02/20	G020	1,528,547	2.85%	1,443	6,223	6.60%	3,344	14,419	(2,426.34)	1.77%	894	3,855	(649)
IVP 4578 Global Procurement Travel Management	4578	09/14/20	G020	312,733	2.85%	295	1,273	6.60%	684	2,950	(496.42)	1.77%	183	789	(133)
opper to Fiber Migration	5721	09/16/20	G020	344,354	2.85%	329	1,285	6.60%	761	2,978	(510.74)	1.77%	204	796	(137)
hysical Security Enhancements	5760	09/16/20	G020	3,622,940	2.85%	3,457	13,520	6.60%	8,011	31,327	(5,373.50)	1.77%	2,142	8,376	(1,437)
IVP 5487C Box & Huddle to SharePoint Online	5487C	09/18/20	G020	455,973	2.85%	435	1,702	6.60%	1,008	3,943	(676.29)	1.77%	270	1,054	(181)
IVP 3614B7 CNI Network Security US	3614B7	09/28/20	G020	1,842,760	2.85%	1,758	6,877	6.60%	4,075	15,934	(2,733.16)	1.77%	1,089	4,261	(731)
NVP 4491 ICE Replacement – O365 Implementation	4491	09/28/20	G020	13,167,277	2.85%	12,565	49,137	6.60%	29,114	113,854	(19,529.53)	1.77%	7,785	30,444	(5,222)

Information Technology Capital Investment Quarterly Report

Rate Year 3 - Third Quarter Ended May 31, 2021

Project Name			1										Rate Y	ear 3 - 1	hird Qua	rter Ended I	May 31, 202
Mary 1000 19	Project Name	INVP#					G Rent-Return			E Rent-Return	E Rent - Depn		T Allocation		1 Kent -	Less IFA Salary & Wage Allocator	Attachment
Marganetic 1967 2007 2007 2007 2007 2008 2508 2	INVP 5506 Integration Services	5506	10/26/20	G020	3,625,145	2.85%	3,496	12.298	6.60%	8.101	28.496		1.77%	2.166	7.620	(1,337)	Page 4 of
Machine Mach												(1,777110)		,		(130)	1
Month of Principation 1971 2000000 26000 1000000 2500000 250000 250000 250000 250000 250000 250000 2500000 250000 250000 250000 250000 250000 250000 2500000 250000 250000 250000 250000 250000 250000 2500000 250000 250000 250000 250000 250000 250000 2500000 250000 250000 250000 250000 250000 250000 2500000 250000 250000 250000 250000 250000 250000 2500000 250000 250000 250000 250000 250000 250000 2500000 250000 250000 250000 250000 250000 250000 2500000 250000 250000 250000 250000 250000 250000 2500000 250000 250000 250000 250000 250000 250000 2500000 2500000 250000 250000 250000 250000 250000 2500000 250000 2												(105:11)				(150)	i
West Proceed 1965 1967												(1.434.53)				(384)	i
TWO STANDARD AND CONTROL AND CONTROL AND																(364)	i
Season September Season		4/3UK	10/31/20	C1/5	1,000,903	3.7770	2,374	0,332	0.9470	4,371	13,373	(2,097.32)	0.00%	-			i
## STYTU ON Diggled ## STYTU		5598A	11/09/20	C175	639,183	3.77%	816	2,869	6.94%	1,501	5,281	(926.43)	0.00%	-	-	-	i
## MAY SATURE SEC. Active Fish and Magnition 15 1471/19 1471/19 2602 2.695.40 2.295. 1.200 4.007 6.009. 1.600 1.705. 1.705 1.7	Solution (AppRat)																i
Mary Part St. Information 1979 11/99/20 630 311.20 250	INVP 5777 US IMS Upgrade	5777	11/14/20	G020	484,461	2.85%	467	1,644	6.60%	1,083	3,808	(668.08)	1.77%	289	1,018	(179)	
International Control Research 1978 137902 137902 13903 13	INVP 5472US GRC Archer Risk and Migration US	5472US	11/23/20	G020	2,629,476	2.85%	2,563	8.029	6.60%	5,938	18,603	(3,352,20)	1.77%	1.588	4,974	(896)	i
Accord 16 Sympol Membridge 500 207,070 000 137,373 2555 1319 437 5450 1419 2431 243												(496.81)				(133)	i
June 1997 1998												(1, 0.01)					i
Moderation 1975 1		5609	12/12/20	G020	1,353,739	2.85%	1,319	4,133	6.60%	3,057	9,577	(1,725.82)	1.77%	817	2,561	(461)	i
MOST PRINCIPS 1970	(4490	12/19/20	6020	2 240 230	2 9504	2 215	6 104	6.60%	5 122	14 144	(2.633.15)	1 77%	1 272	2 792	(704)	ı
Device before 18 Deventries \$9868												(//				(1,158)	ı
Section Sect												(,,ee=.ee)					i
Body March September S							3,979	28,747				(1/1 1 1 1		2,465	1/,810	(2,770)	1
General Recording Salesta Carlot Section Carlot S						0.00,0	-	-						-	-	-	1
Stabilization of Criment loss Legion Applications (GWG) 9.7886 07.279.1 C239 87.08.2 0.079.1 0							1,014	2,487		2,349	5,763	(1,108.15)		628	1,541	(296)	1
MPS 5236 Deventuer N° PRE Neglectement Ugraphe 5226 075/211 0225	Control Room Event Recording						-	-		-	-	-		-	-	_	1
Cobat Multi Enterprise	Stabilization of Critical Gas Legacy Applications (CWQ)	5789C	02/22/21	C239	268,623	0.00%	-	-	0.00%	-	-	-	0.00%	-	-	-	
Goods Mode Conference Spide		5523G	02/25/21	G225	847,881	0.00%	-	-	0.00%	-	-	-	0.00%		-	-	
Apart Conformation						2.85%	711	1.440	6.60%	1.648	3,338	(681.01)	1.77%	441	892	(182)	
MPS 5166 Sort Cities Sciencescold 5166 MS 178721 S216 447.715 0.00%					, .				0.00.00			(/				(386)	
Temphone Commune Protection Act (TCN) 5796 07/28/71 0431 342_445 0.00%						2.0570	1,509	1,00,1		J,491	7,082	(1,445.09)		733	1,074	(380)	
Section Sect	,											•					
Count Centure of Fixed Internet of Fixed Inter							-				-			-	-	-	
SQC Marches SQC Marche																(160)	
Electric Field Crew Pad Time Entry and Basic Capability Ail: \$570 03/12/21 C28 977.957 0.00%	Cloud Center of Excellence		02/28/21	G020	661,271				6.60%		3,119	(636.38)		412		(170)	-
Internation 1978 Productment 1978 1979	SOE (Windows) Upgrade and Device Refresh	4987	02/28/21	G020	17,454,014	2.85%	16,125	82,898	6.60%	37,362	192,081	(31,341.90)	1.77%	9,990	51,361	(8,381)	
Heisting Infestivature Referen to 16Cl 6049 03/18/21 6020 822-96 (10 285% 22-96 (Electric Field Crew iPad Time Entry and Basic Capability -NE		03/12/21		·							(3,874.05)				-	
Directory Services - US	INVP 5523B Upstate NY PBX Replacement	5523B	03/17/21	G020	1,046,352	2.85%		2,485	6.60%	2,412	5,758	(1,115.96)	1.77%	645	1,540	(298)	
Application virtualization (587) 03/19/21 G020 898.012 25% 912 1523 660% 2112 3.530 (770.07) 1.77% 565 944 1	Hosting Infrastructure Refresh to HCI	6049	03/18/21	G020	2,259,610	2.85%	2,294	3,833	6.60%	5,315	8,881	(1,939.18)	1.77%	1,421	2,375	(519)	
OSIONE STAWARE ILENSING MITHEMENT 667A 03/75/71 0327 2.115.744 3.00% 2.283 3.815 6.99% 5.310 8.873 (1.937.35) 1.85% 1.405 2.348	Directory Services - US	5750	03/18/21	G020	802,459	2.85%	815	1,361	6.60%	1,888	3,154	(688.66)	1.77%	505	843	(184)	
OSBORT STAWARE ILENSING HIRTONIAN G1767 G177	Application Virtualization	5837	03/19/21	G020	898.012	2.85%	912	1.523	6.60%	2.112	3.530	(770.67)	1.77%	565	944	(206)	
Nucleus Project S05 03/25/21 C175 10/49/946 3.77% 14-047 23,472 6-94% 25.85% 43.008 (0.434.44) 0.00%												(1.937.35)				(513)	
NAPP 5486 AVIS Modem Reconfiguration					=,,			0,010				(-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1,405	2,540	(515)	
NNP 5721WA Endpoint Protection 5702USA 6376/21 6020 33.010.19 2.8% 3.361 5.616 6.69% 7.788 13.013 (2.841.40) 1.77% 2.882 3.480					,,		14,047	23,472			,	(2,194.79)					
Telephone Consumer Protection Act, TCPA) 5795, 33/30/21 C344 472,999 5.43% 915 1.529 9.99% 1.683 2.813 (61.413) 0.00%							2.261					(2,184.78)		2.002	2 400	(7.0)	
MS Project Online Enhancements 5901C 93/90/21 6020 310.170 2.85% 315 520 6.60% 730 1.219 (206.19) 1.77% 195 336 MNP 5524A MND Post 194 MRD Post 194														2,082	3,480	(760)	
INVP 5754A NEWORK Equipment End of Life Replacement 1														-	-	-	
NNP 5754 Network Equipment End of Life Replacement: NN	MS Project Online Enhancements		03/30/21	G020	,		315	526				(266.19)		195	326	(71)	
Constant Connection Program	INVP 5524A WAN Diversity at 18 Regional Storm Sites	5524A	03/31/21	G198	1,386,236	0.00%	-	-	15.03%	7,421	12,400	(2,707.56)	0.00%	-	-	-	
Managed Networks 5838 03/31/21 GO20 20,268,975 2.85% 20,576 34.381 6.60% 47,676 79,664 (17,394.64) 1.77% 12,748 21,301 500 500 500 500 500 500 500 500 500 5		5754	03/31/21	G020	4,570,787	2.85%	4,640	7,753	6.60%	10,751	17,965	(3,922.61)	1.77%	2,875	4,804	(1,049)	
Substation Network Connectivity & Comms 5846 03/31/21 6020 13.189.816 2.85% 13.390 22.373 6.60% 31.025 51.841 (11.319.40) 1.77% 8.296 13.862 ServiceNow Diggrade to version Orlando 5900A 03/31/21 6020 311.619 2.85% 316 529 6.60% 3.537 5.910 (1.290.40) 1.77% 196 327 Application Lifecycle Management Toolset Phase 2 5901B 03/31/21 6020 1.503.625 2.85% 1.526 2.551 6.60% 3.537 5.910 (1.290.40) 1.77% 946 1.580 Data Mgmt, Tooling 5917A 03/31/21 6020 1.628.818 2.85% 1.653 2.763 6.60% 3.831 6.402 (1.397.84) 1.77% 1.024 1.712 Legacy AD Remediation 5942 03/31/21 6020 5.669.322 2.85% 5.755 9.617 6.60% 13.335 22.283 (4.865.39) 1.77% 400 6.68 SD WAN FY21 Expansion 6046 03/31/21 6020 5.669.322 2.85% 5.755 9.617 6.60% 13.335 22.283 (4.865.39) 1.77% 3.566 5.958 Migration to IBM P9 6050 03/31/21 6020 432.146 2.85% 439 733 6.60% 1.016 1.698 (370.86) 1.77% 272 454 STORMS Extended Performance 6051 03/31/21 6020 39.2560 2.85% 399 666 6.60% 923 1.543 (336.90) 1.77% 2.72 454 STORMS Extended Performance 6.6051 03/31/21 6020 39.2560 2.85% 399 666 6.60% 923 1.543 (336.90) 1.77% 2.47 413 HCL Lite Design & Deployment 6.117 03/31/21 6020 3.255.263 2.85% 3.95 666 6.60% 1.016 1.698 (370.86) 1.77% 2.47 413 HCL Lite Design & Deployment 6.108 03/31/21 6020 3.255.263 2.85% 3.99 666 6.60% 1.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3	Customer Connection Program	5125	03/31/21	C175	2,288,478	3.77%	3,073	5,135	6.94%	5,658	9,454	(2,064.19)	0.00%	-	-	-	
ServiceNow Upgrade to version Orlando 5900A 03/31/21 G020 311,619 2.85% 316 529 6.60% 733 1.225 (267.43) 1.77% 196 327	Managed Networks	5838	03/31/21	G020	20,268,935	2.85%	20,576	34,381	6.60%	47,676	79,664	(17,394.64)	1.77%	12,748	21,301	(4,651)	
ServiceNow Upgrade to version Orlando 5900A 03/31/21 G020 311,619 2.85% 316 529 6.60% 733 1.225 (267.43) 1.77% 196 327	· ·											(11.319.40)				(3,027)	
Application Lifecycle Management Toolset Phase 2 5901B 03/31/21 6020 1.503,625 2.85% 1.526 2.551 6.60% 3.537 5.910 (1.290.40) 1.77% 946 1.580 Data Mgmt_ Tooling 5917A 03/31/21 6020 1.628,818 2.85% 1.653 2.763 6.60% 3.831 6.402 (1.397.84) 1.77% 1.1024 1.712 Legary AD Remediation 5942 03/31/21 6020 6.35,234 2.85% 645 1.078 6.60% 1.494 2.497 (545.15) 1.77% 400 668 SD WAN FY2L Expansion 6046 03/31/21 6020 5.669,352 2.85% 5.755 9.617 6.60% 1.3335 2.2283 (4.865.39) 1.77% 3.566 5.958 Migration to IBM P9 6050 03/31/21 6020 432.146 2.85% 439 733 6.60% 1.016 1.698 (370.86) 1.77% 2.24 454 STORMS Extended Performance 6051 03/31/21 6100 1.224.329 4.56% 1.988 3.322 10.40% 4.534 7.576 (1.654.14) 2.91% 1.267 2.118 IBM P9 Bigital Asset Build 6088 03/31/21 6020 392.566 2.85% 3.99 666 6.60% 923 1.543 (336.90) 1.77% 2.47 413 HCI Lite Design & Deployment 6117 03/31/21 6020 392.566 2.85% 3.99 666 6.60% 923 1.543 (336.90) 1.77% 2.47 413 HCI Lite Design & Deployment 6117 03/31/21 6020 392.566 2.85% 3.90 5.522 6.60% 7.657 12.794 (2.793.64) 1.77% 2.47 413 HCI Lite Design & Deployment 6118 03/31/21 6020 392.566 2.85% 3.90 5.522 6.60% 7.657 12.794 (2.793.64) 1.77% 2.47 413 HCI Lite Design Automation and Response 3683USN 03/31/21 6020 636.248 2.85% 646 1.079 6.60% 1.497 2.501 (546.02) 1.77% 400 669 0MS Router Replacement & IT Service Management 5867A 03/31/21 6020 5.248.008 2.85% 5.328 8.902 6.60% 1.497 2.501 (546.02) 1.77% 400 669 0MS Router Replacement & IT Service Management 5867A 03/31/21 6020 5.248.008 2.85% 5.328 8.902 6.60% 1.497 2.501 (546.02) 1.77% 3.301 5.515 Stabilization of Critical Gas Legacy Applications (ePermits) 5785C 04/01/21 6385 349.004 0.00%												(267.43)				(72)	
Data Mgmt_Tooling 5917A 03/31/21 G020 1,628.818 2.85% 1,653 2,763 6.60% 3,831 6,402 (1,397.84) 1,77% 1,024 1,712 Legacy AD Remediation 5942 03/31/21 G020 655,234 2.85% 645 1,078 6.60% 1,494 2,497 (545.15) 1,77% 3,566 5,958 SDWAN PY21 Expansion 6046 03/31/21 G020 432,146 2.85% 5,755 9,617 6.60% 1,016 1,698 370.86 1,77% 3,566 5,958 Migration to IBM P9 6050 03/31/21 G020 432,146 2.85% 439 733 6.60% 1,016 1,698 370.86 1,77% 227 454 STORMS Extended Performance 6051 03/31/21 G020 392,566 2.85% 399 666 6.60% 923 1,543 (336.00) 1,77% 247 413 HCI Lite Design & Deployment 6117 03/31/21 G020 <												V/				(345)	
Legacy AD Remediation 5942 03/31/21 G020 635,234 2.85% 645 1,078 6.60% 1,494 2,497 (545,15) 1.77% 400 668 SD WAN FY21 Expansion 6046 03/31/21 6020 432,146 2.85% 5,755 9,617 6.60% 11,335 22,283 4,865,39 1.77% 3,566 5,958 Miligration to IBM P9 6050 03/31/21 G020 432,146 2.85% 439 733 6.60% 1,016 1,698 (370,86) 1,77% 272 454 STORMS Extended Performance 6051 03/31/21 G160 1,224,329 4.56% 1,988 3,322 10.40% 4.534 7,576 (1,654,14) 2.91% 1,267 2,118 BIM P8 Digital Asset Build 6088 03/31/21 G020 325,263 2.85% 399 666 6.60% 923 1,543 (336,90) 1,77% 2047 413 HCI Lite Design & Deployment 6117 03/31/21 G020											- / /	(-,-, 0.1.0)		,	-,000	(374)	
SDWAN FY21 Expansion 6046 03/31/21 G020 5.669,352 2.85% 5,755 9.617 6.60% 13,335 22,283 (4,865.39) 1.77% 3.566 5.958 Migration to IBM P9 6050 03/31/21 G020 432,146 2.85% 439 733 6.60% 1.016 1.698 (370.86) 1.77% 272 454 575 S0RMS Extended Performance 6050 03/31/21 G020 432,146 2.85% 439 733 6.60% 1.016 1.698 (370.86) 1.77% 272 454 575 S0RMS Extended Performance 6088 03/31/21 G020 392,566 2.85% 399 666 6.60% 923 1.543 (336.90) 1.77% 247 413 HGL Itze Design & Deployment 6117 03/31/21 G020 325.5263 2.85% 3.00 5.522 6.60% 7.657 12,794 (2.793.64) 1.77% 2.047 3.421 50.00	<u> </u>							,				(-,0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				(3/4)	
Migration to IBM P9 6050 03/31/21 G020 432,146 2.85% 439 733 6.60% 1.016 1.698 (370.86) 1.77% 272 454 550RMS Extended Performance 6051 03/31/21 G160 1.224,329 4.56% 1.988 3.322 10.40% 4.534 7.576 (1.698 (370.86) 1.77% 272 454 1.78 1.78 1.78 1.78 1.78 1.78 1.78 1.78												(515.15)		100		(110)	
STORMS Extended Performance 6051 03/31/21 G160 1,224,329 4,56% 1,988 3,322 10,40% 4,534 7,576 (1,654,14) 2,91% 1,267 2,118 IBM P8 Digital Asset Build 6088 03/31/21 G020 392,566 2,85% 399 666 6,60% 923 1,543 (336,90) 1,77% 247 413 HCL Lite Design & Deployment 6117 03/31/21 G020 3,255,263 2,85% 3,305 5,522 6,60% 7,657 12,794 (2,793,64) 1,77% 2,047 3,421 Sharepoint to Sharepoint Online 6108 03/31/21 G020 636,248 2,85% 646 1,079 6,60% 1,497 2,501 (546,02) 1,77% 400 669 OMS Router Replacement & IT Service Management 5867A 03/31/21 G148 432,241 3,01% 463 774 7,00% 1,078 1,802 (393,42) 1,85% 285 476 SOAR - Security Orchestration Automation and Response 3683USN 03/31/21 G020 5,248,008 2,85% 5,328 8,902 6,60% 12,344 20,627 (4,503,80) 1,77% 3,301 5,515 Stabilization of Critical Gas Legacy Applications (ePermits) 5785C 04/01/21 G385 349,604 0,00% 0,00																(1,301)	
IBM P8 Digital Asset Build G088 03/31/21 G020 392,566 2.85% 399 666 6.60% 923 1,543 (336.90) 1,77% 247 413 413 415	Migration to IBM P9	6050	03/31/21	G020		2.85%	439	733	6.60%				1.77%	272	454	(99)	
BM P8 Digital Asset Build 6088 03/31/21 G020 392,566 2.85% 399 666 6.60% 923 1,543 (336,90) 1,77% 247 413	STORMS Extended Performance	6051	03/31/21	G160	1,224,329	4.56%	1,988	3,322	10.40%	4,534	7,576	(1,654.14)	2.91%	1,267	2,118	(462)	
HCL Lite Design & Deployment 6117 03/31/21 G020 3,255,263 2.85% 3,305 5,522 6,60% 7,657 12,794 (2,793.64) 1,77% 2,047 3,421 Sharepoint to Shar					392,566	2.85%	399	666	6.60%	923		(336.90)	1.77%	247		(90)	
Sharepoint to Sharepoint Online 6108 03/31/21 G020 636,248 2.85% 646 1,079 6.60% 1,497 2,501 (546.02) 1,77% 400 669 OMS Router Replacement & IT Service Management 5867 03/31/21 G148 432,241 3.01% 463 774 7.00% 1,078 1,802 (393.42) 1.85% 285 476 SDAR - Security Orchestration Automation and Response 3683USN 03/31/21 G020 5,248,008 2.85% 5,328 8.902 6.60% 12,344 20,627 (4,503.80) 1,77% 3,301 5,515 Stabilization of Critical Gas Legacy Applications (ePermits) 5785C 04/01/21 G385 349,604 0.00% - 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% - 0.00% 0.00% - 0.00%							***			7-0		(00000)				(747)	
OMS Router Replacement & IT Service Management 5867A 03/31/21 G148 432,241 3.01% 463 774 7.00% 1,078 1,802 (393.42) 1.85% 285 476 SOAR - Security Orchestration Automation and Response 3683USN 03/31/21 G020 5,248,008 2.85% 5,328 8,902 6.60% 12,344 20,627 (4,503.80) 1.77% 3,301 5,515 Stabilization of Critical Gas Legacy Applications (ePermits) 5785C 04/01/21 G385 349,604 0,00% 0,000%																(146)	
SOAR - Security Orchestration Automation and Response 3683USN 03/31/21 G020 5,248,008 2.85% 5,328 8,902 6.60% 12,344 20,627 (4,503.80) 1,77% 3,301 5,515 Stabilization of Critical Gas Legacy Applications (ePermits) 5785C 04/01/21 G385 349,604 0.00% 0.000% - 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% - 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% - 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% - 0.000%												(510.02)				(104)	
Stabilization of Critical Gas Legacy Applications (ePermits) 5785C 04/01/21 G385 349,604 0.00% - - 0.00% - - 0.00% - - - 0.00% - - - 0.00% - - - 0.00% - - - 0.00% - - - 0.00% - - - 0.00% - - - 0.00% - - - 0.00% - - - 0.00% - - - 0.00% - - - 0.00% - - - 0.00% - - - 0.00% - - - 0.00% - - - - - 0.00% -					,							(373.42)				(101)	
Data Protection Suite (DPS) 6106 04/23/21 G020 3,260,869 2.85% 3,343 4,425 6.60% 7,747 10,253 (2,458.78) 1.77% 2,071 2,742 (20stomer COVID-19 Payment Plan for IVR and Web 6115 04/23/21 C175 520,403 3.77% 706 934 6.94% 1,299 1,720 (412.42) 0.00%							5,328	8,902		12,344	20,627	(4,503.80)		3,301	5,515	(1,204)	
Customer COVID-19 Payment Plan for IVR and Web 6115 04/23/21 C175 520,403 3.77% 706 934 6.94% 1,299 1,720 (412.42) 0.00% INVP 4904 Upgrade Servers for CCAE Reporting 4904 04/26/21 G004 1,358,493 3.18% 1,554 2,057 7.32% 3,578 4,735 (1,135.60) 1,99% 975 1,290 Blackline: US Implementation 5380 04/26/21 G020 1,429,422 2.85% 1,466 1,940 6.60% 3,396 4,495 (1,077.82) 1,77% 908 1,202 Device Refresh 5161 04/30/21 G020 5,023,947 2.85% 4,879 15,908 6.60% 11,305 36,859 (6,579.25) 1,77% 3,023 9,856 Cloud Video Interoperability 6136 05/10/21 G020 604,895 2.85% 620 821 6.60% 1,437 1,902 (456.11) 1,77% 384 509							-	-		-	-	-			-	-	ž.
INVP 4904 Upgrade Servers for CCAE Reporting 4904 04/26/21 G004 1,358,493 3.18% 1,554 2,057 7.32% 3,578 4,735 (1,135.60) 1.99% 975 1,290 Blackline: US Implementation 5380A 04/26/21 G020 1,429,422 2.85% 1,466 1,940 6.60% 3,396 4,495 (1,077.82) 1,77% 908 1,202 Blackline: US Implementation 5380A 04/26/21 G020 1,429,422 2.85% 1,466 1,940 6.60% 3,396 4,495 (1,077.82) 1,77% 908 1,202 Device Refresh 5161 04/30/21 G020 5,023,947 2.85% 4,879 15,908 6.60% 11,305 36,859 (6,579.25) 1,77% 3,023 9,856 Cloud Video Interoperability 6136 05/10/21 G020 604,895 2.85% 620 821 6.60% 1,437 1,902 (456.11) 1,77% 384 509	Data Protection Suite (DPS)	6106	04/23/21	G020	3,260,869	2.85%	3,343	4,425	6.60%	7,747	10,253	(2,458.78)	1.77%	2,071	2,742	(657)	
INVP 4904 Upgrade Servers for CCAE Reporting 4904 04/26/21 G004 1,358,493 3.18% 1,554 2,057 7.32% 3,578 4,735 (1,135.60) 1,99% 975 1,290 Blackline: US Implementation 5380A 04/26/21 G020 1,429,422 2.85% 1,466 1,940 6.60% 3,396 4,495 (1,077.82) 1,77% 908 1,202 Blackline: US Implementation 5380A 04/26/21 G020 1,429,422 2.85% 1,466 1,940 6.60% 3,396 4,495 (1,077.82) 1,77% 908 1,202 Device Refresh 5161 04/30/21 G020 5,023,947 2.85% 4,879 15,908 6.60% 11,305 36,895 (6,579.25) 1,77% 3,023 9,856 Cloud Video Interoperability 6136 05/10/21 G020 604,895 2.85% 620 821 6.60% 1,437 1,902 (456.11) 1,77% 384 509	Customer COVID-19 Payment Plan for IVR and Web	6115	04/23/21	C175	520,403	3.77%	706	934	6.94%	1,299	1,720	(412.42)	0.00%		-	-	
Blackline: US Implementation 5380A 04/26/21 G020 1,429,422 2.85% 1,466 1,940 6.60% 3,396 4,495 (1,077.82) 1,77% 908 1,202 Blackline: US Implementation 5380A 04/26/21 G020 1,429,422 2.85% 1,466 1,940 6.60% 3,396 4,495 (1,077.82) 1,77% 908 1,202 Device Refresh 5161 04/30/21 G020 5,023,947 2.85% 4,879 15,908 6.60% 11,305 36,859 (6,579.25) 1,77% 3,023 9,856 Cloud Video Interoperability 6136 05/10/21 G020 604,895 2.85% 620 821 6.60% 1,437 1,902 (456.11) 1,77% 384 509								2 057						975	1 290	(309)	
Blackline: US Implementation 5380A 04/26/21 G020 1,429,422 2.85% 1,466 1,940 6.60% 3,396 4.495 (1,077.82) 1.77% 908 1,202 Device Refresh 5161 04/30/21 G020 5,023,947 2.85% 4,879 15,908 6.60% 11,305 36,859 (6,579.25) 1.77% 3,023 9,856 Cloud Video Interoperability 6136 05/10/21 G020 604,895 2.85% 620 821 6.60% 1,437 1,902 (456.11) 1.77% 384 509												()				(288)	
Device Refresh 5161 04/30/21 G020 5,023,947 2.85% 4,879 15,908 6.60% 11,305 36,859 (6,579.25) 1.77% 3,023 9,856 Cloud Video Interoperability 6136 05/10/21 G020 604,895 2.85% 620 821 6.60% 1,437 1,902 (456.11) 1.77% 384 509																	
Cloud Video Interoperability 6136 05/10/21 6020 604,895 2.85% 620 821 6.60% 1,437 1,902 (456.11) 1.77% 384 509												(-,)				(288)	
			- 1 - 1		- , ,			- ,,		,,,,,	,					(1,759)	
												(456.11)				(122)	
US Tax: SABRIX Upgrade 5896A 05/24/21 G020 260,492 2.85% 270 265 6.60% 625 614 (169.28) 1.77% 167 164	US Tax: SABRIX Upgrade	5896A	05/24/21	G020	260,492	2.85%	270	265	6.60%	625	614	(169.28)	1.77%	167	164	(45)	
Pension Administrator Replacement 5841A 05/27/21 G020 715,868 2.85% 741 729 6.60% 1,718 1,688 (465.21) 1.77% 459 451		5841A			715.868	2.85%			6,60%			(465.21)	1.77%	459	451	(124)	

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770

Information Technology Capital Investment Quarterly Report

Rate Year 3 - Third Quarter Ended May 31, 2021

Project Name	INVP#	Actual In Service Date	Allocation Code	Project To Date Cost	G Allocation	G Rent-Return	G Rent - Depn	E Allocation	E Rent-Return	E Rent - Depn	Less IFA Salary & Wage Allocator	T Allocation	T Rent- Return	T Rent - Depn	Less IFA Salary	Attachment 1 Page 5 of 5
INVP 4483 US Control-Transmission Outage Application	4483	05/28/21	G185	3,980,805	0.00%			11.71%	16,935	16,646	(4,587.25)	3.34%	4.829	4,747	(1,308)	rage 5 of 5
(iTOA) Upgrade to HTML 5 Web	4463	03/28/21	0103	3,980,803	0.00%			11.7170	10,933	10,040	(4,387.23)	3.3470	4,629	4,747	(1,508)	
MA Electric Vehicle Rebate Program	5795E	05/30/21	C277	618,754	0.00%	-	-	0.00%	-	-	-	0.00%	-	-	-	
US SAP Minor Enhancements	5919	05/30/21	G020	584,072	2.85%	605	594	6.60%	1,401	1,377	(379.57)	1.77%	375	368	(101)	
Substation Access Points	5867E	05/30/21	G186	911,753	0.00%	-	-	11.77%	3,901	3,834	(1,056.54)	3.35%	1,111	1,092	(301)	
AIMS Stability	5863D	05/31/21	C175	494,142	3.77%	677	665	6.94%	1,246	1,225	(337.51)	0.00%	-	-	-	
IT Actuals				550,355,376		675,477	1,944,274		1,684,992	4,696,139	(871,662)		308,450	880,918	(162,468)	

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Information Technology Capital Investment Quarterly Report Rate Year 3 - Third Quarter Ended May 31, 2021 Attachment 2

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Narragansett Electric Company, Narragansett Gas Company and Narragansett Electric Company - Transmission d/b/a National Grid Rate Year 3 Quarter 3
YTD Actuals vs FY22 IT Investment Plan Budget
Amounts in Millions of USD

Total Service Company Capital Spending

Customer Blinks improvement Program - Phase 1 578 10.80% 0.0 1.0 0.0 1.2 9.0 3.0 1	Project Name	INVP#	RI Total Percent	Project Inception to March 31, 2021 Spending	FYTD Budget (April 2021 - May 2021)	FYTD Actual (April 2021 - May 2021)	FYTD Variance (April 2021 - May 2021)	FY22 Annual Budget	FYTD Absolute Variance %	YTD Variance Driver
On May Ny (Fall Digital Solution) Phase 2 505 13.0% 0.0 1.4 0.3 1.2 9.0 81.0% Change in project delivery timeline Future Now - Neet Phase 6076 14.30% 0.0 0.5 0.6 0.01 8.5 1.38 Budget Phissing for the Compliance & Enhancements 5158 9.60% 1.5 1.3 0.0 1.3 0.5 99% Re-printized to begin later 1.20% 1.2	Customer Billing Improvement Program - Phase 1	5778	10.80%	0.0	1.0	0.0	1.0	10.8	100%	Change in project delivery timeline
Fature Now: Next Phase	- · · ·			0.0	1.4	0.3	1.2	9.0	81%	
Mystud Complaince & Enhancements								8.5		
Financial Transformation (FOM) - Record To Report (US) 6289 9,00% 0.0 0.4 0.0 0.4 5.8 100% Budget Phasing VMO Validation of Phase 6073 14.30% 4.8 2.1 0.9 0.3 5.4 100% Procurement Delays (CU-Out (Electric Ogita) 6.29 14.30% 0.0 0.3 0.0 0.3 5.4 100% Procurement Delays (Foreign Control Ogital Phase Procurement Delays (Foreign Control Procurement Delays (Foreign Control Procurement Delays (Foreign Control Procurement Delays (Foreign Control Procurement Delays (Foreign Co	MvHub Compliance & Enhancements	5158	9.60%	1.5	1.3	0.0	1.3	6.5	99%	
MOV Outlidation Phase 6073 14-30% 0.0 0.3 0.0 0.3 0.0 0.3 0.0 0.3 0.0 0.3 0.0 0.3 0.0 0.3 0.0				0.0	0.4	0.0	0.4	5.8	100%	
CU-Out (Tectric Ogita)				4.8	2.1	0.9	1.2	5.7	58%	
Froing					0.3					
My Business Account (Nucleus Phase 2) 5673 10.80% 540 0.6 0.4 0.2 4.9 37% Change in project delivery timeline Other Business Programs and Projects 540 6.58 10.0 (1.58 1.00 1.58 54.3 2.73% 54.0 1.27 1.28 88.2.5% 66.3 2.5 12.2 (9.7) 120.8 882.5% 67.3 1.00% 1	- · · · · · · · · · · · · · · · · · · ·	6294	14.30%	0.0	0.3	0.0	0.3	5.0	100%	Funding Bucket
Second Continue Second	Predictament	PD22	14.30%	0.0	0.3	0.0	0.3	5.0	100%	Re-prioritzed to begin later
Sample S	My Business Account (Nucleus Phase 2)	5673	10.80%	0.0	0.6	0.4	0.2	4.9	37%	Change in project delivery timeline
Physical Security				54.0	(5.8)	10.0	(15.8)	54.3		<u> </u>
Physical Security 6.244 9.60% 0.0 0.4 0.0 0.4 6.7 100% Funding Bucket 1 5870 9.60% 10.2 1.5 1.9 (0.4) 6.5 25% Re-prioritized to begin earlier 1 FY22 Platform Tower 6.210US 9.60% 0.0 0.5 0.1 0.4 6.1 87% Budget Phasing US Strategic fisk Remediation 5933 9.60% 0.0 0.3 0.0 0.3 5.0 100% Re-prioritized to begin later 1 FY22 Network Tower 6.210US 9.60% 0.0 0.2 0.0 0.3 5.0 100% Re-prioritized to begin later 1 FY22 Network Tower 9.210 1.0 1.0 1.0 1.0 0.0 0.1 1.0 1.0 1.0 1	· ·			60.3	2.5	12.2	(9.7)	120.8		_
						·				_
PYZ2 Patrom Tower	Physical Security	6244	9.60%	0.0	0.4	0.0	0.4	6.7	100%	Funding Bucket
US Strategic Risk Remediation	Identity and Access Management	5870	9.60%				(0.4)	6.5		Re-prioritzed to begin earlier
FYZ2 Network Tower Customer Contact Center / SDC Technology Upgrade Implement Sc 3932 10.80% 24.7 1.8 0.7 1.1 2.3 60% Supplier delays	FY22 Platform Tower	6210US	9.60%	0.0	0.5	0.1	0.4	6.1	87%	Budget Phasing
Customer Contact Center / SDC Technology Upgrade Implement Sc. 3932 10.80% 24.7 1.8 0.7 1.1 2.3 60% 50	US Strategic Risk Remediation	5933	9.60%	0.0	0.3	0.0	0.3	5.0	100%	Re-prioritzed to begin later
Security Orchestration Automation & Response 624 9,60% 0.0 0.1 0.0 0.1 1.6 100% Re-prioritzed to begin later Proyagrade for CSS - Plan Forward 5891 11.09% 0.0 0.2 0.0 0.1 1.6 80% Supplier delays Segritarian 1.09% 0.0 0.0 0.0 0.0 0.1 1.6 80% Supplier delays Segritarian Segri	FY22 Network Tower	6211US	9.60%	0.0	0.2	0.0	0.2		100%	Re-prioritzed to begin later
FCP Upgrade for CSS - Plan Forward	Customer Contact Center / SDC Technology Upgrade Implement S	3932	10.80%							
Electric MV90 Upgrade	Security Orchestration Automation & Response	6245	9.60%							
FCS Upgrade	FCP Upgrade for CSS - Plan Forward	6066	15.50%	1.0	0.4	0.3	0.1	2.0	27%	Procurement Delays
Cher Regulatory, Legal and Compliance Mandates 22.6 5.7 1.8 3.9 29.6 68%	Electric MV90 Upgrade	5891A	11.90%				0.1		80%	Supplier delays
18.0 US Networks FY22	FCS Upgrade	5891C	14.30%							
1&O US Networks FY22	Other Regulatory, Legal and Compliance Mandates									_
180 US Data Center Transformation FY22 6223 9.60% 0.0 0.0 0.0 0.0 0.0 0.0 16.0 n/a	Total Regulatory, Legal and Compliance Mandates			57.5	10.3	4.5	5.9	59.7	56.7%	_
180 US Data Center Transformation FY22 6223 9.60% 0.0 0.0 0.0 0.0 0.0 0.0 16.0 n/a	I&O US Networks FY22	6197	9.60%	0.0	3.1	0.6	2.5	17.4	81%	Change in project delivery timeline
T Project Evolution (FY22 Cost Savings & CTA) 6297 9.60% 0.0 0.0 0.0 0.0 0.0 12.0 n/a										g pj
1&O US Operations FY22 6196 9.60% 0.0 2.1 1.5 0.5 11.7 26% Budget reclassification 1&O US Cloud and Hosting FY22 6200 9.60% 0.0 0.7 0.7 0.0 7.0 2% 1&O US End User Experience FY22 6198 9.60% 0.0 1.1 0.2 1.0 6.9 85% Budget reclassification EA Foundation: Increased Capability 6260US 9.60% 0.0 0.2 0.0 0.2 3.1 100% Re-prioritzed to begin later Cloud API Migrations Phase 2 5899A 9.60% 0.0 0.5 0.7 (0.2) 2.0 44% Scope Change IT Enterprise Project Mgmt Office (PMO) 6263US 9.60% 0.0 0.1 0.0 0.1 1.8 100% On hold GSD Engineering Lab/Data Synchronization 6257US 9.60% 0.0 0.1 0.0 0.1 1.7 100% Scope Change Other Technology/Infrastructure Foundation and Reliability 0.0 8.8 5.0 3.8 90.7 n/a TOTAL Core IT Capital Invest										
I&O US Cloud and Hosting FY22 6200 9.60% 0.0 0.7 0.7 0.0 7.0 2% I&O US End User Experience FY22 6198 9.60% 0.0 1.1 0.2 1.0 6.9 85% Budget reclassification EA Foundation: Increased Capability 6260US 9.60% 0.0 0.2 0.0 0.2 3.1 100% Re-prioritized to begin later Cloud API Migrations Phase 2 589A 9.60% 0.0 0.5 0.7 (0.2) 2.0 44% Scope Change IF Enterprise Project Mgmt Office (PMO) 6263US 9.60% 0.0 0.1 0.0 0.1 1.8 100% On hold GSD Engineering Lab/Data Synchronization 6257US 9.60% 0.0 0.1 0.0 0.1 1.7 100% Scope Change Other Technology/Infrastructure Foundation and Reliability 0.0 8.8 5.0 3.8 90.7 n/a TOTAL Core IT Capital Investment 117.8 21.7 21.7 0.0 271.3 n/a										Budget reclassification
I&O US End User Experience FY22 6198 9.60% 0.0 1.1 0.2 1.0 6.9 85% Budget reclassification EA Foundation: Increased Capability 6260US 9.60% 0.0 0.2 0.0 0.2 3.1 100% Re-prioritzed to begin later Cloud API Migrations Phase 2 5899A 9.60% 0.0 0.5 0.7 (0.2) 2.0 44% Scope Change IT Enterprise Project Mgmt Office (PMO) 6263US 9.60% 0.0 0.1 0.0 0.1 1.8 100% On hold GSD Engineering Lab/Data Synchronization 6257US 9.60% 0.0 0.1 0.0 0.1 1.7 100% Scope Change Other Technology/Insfrastructure Foundation and Reliability 0.0 8.8 5.0 3.8 90.7 n/a TOTAL Core IT Capital Investment 117.8 21.7 21.7 0.0 271.3 n/a	· · · · · · · · · · · · · · · · · · ·									
EA Foundation: Increased Capability 6260US 9.60% 0.0 0.2 0.0 0.2 3.1 100% Re-prioritzed to begin later Cloud API Migrations Phase 2 5899A 9.60% 0.0 0.5 0.7 (0.2) 2.0 44% Scope Change IT Enterprise Project Mgmt Office (PMO) 6263US 9.60% 0.0 0.1 0.0 0.1 1.8 100% On hold GSD Engineering Lab/Data Synchronization 6257US 9.60% 0.0 0.1 0.0 0.1 1.7 100% Scope Change Other Technology/Insfrastructure Foundation and Reliability Total Technology/Infrastructure Foundation and Reliability 0.0 8.8 5.0 3.8 90.7 n/a TOTAL Core IT Capital Investment 117.8 21.7 21.7 0.0 271.3 n/a										Budget reclassification
Cloud API Migrations Phase 2 5899A 9.60% 0.0 0.5 0.7 (0.2) 2.0 44% Scope Change TEnterprise Project Mgmt Office (PMO) 6263US 9.60% 0.0 0.1 0.0 0.1 1.8 100% On hold GSD Engineering Lab/Data Synchronization 6257US 9.60% 0.0 0.1 0.0 0.1 1.7 100% Scope Change Other Technology/Insfrastructure Foundation and Reliability 0.0 8.8 5.0 3.8 90.7 n/a Total Technology/Infrastructure Foundation and Reliability 117.8 21.7 21.7 0.0 271.3 n/a	·			0.0	0.2	0.0	0.2	3.1	100%	~
TEnterprise Project Mgmt Office (PMO)				0.0	0.5	0.7	(0.2)	2.0	44%	
GSD Engineering Lab/Data Synchronization 6257US 9.60% 0.0 0.1 0.0 0.1 1.7 100% Scope Change				0.0	0.1	0.0	0.1	1.8	100%	
Other Technology/Insfrastructure Foundation and Reliability 0.0 0.9 1.3 (0.4) 11.1 44% Total Technology/Infrastructure Foundation and Reliability 0.0 8.8 5.0 3.8 90.7 n/a TOTAL Core IT Capital Investment 117.8 21.7 21.7 0.0 271.3 n/a			9.60%	0.0	0.1	0.0	0.1	1.7	100%	Scope Change
117.8 21.7 21.7 0.0 271.3 n/a				0.0	0.9	1.3	(0.4)	11.1	44%	
TOTAL Core IT Capital Investment 117.8 21.7 21.7 0.0 271.3 n/a	${\bf Total\ Technology/Infrastructure\ Foundation\ and\ Reliability}$			0.0		5.0	3.8	90.7	n/a	- -
		7								_
FY21 CAPITAL INVESTMENT PLAN TOTALS 117.8 21.7 21.7 0.0 271.3 n/a	TOTAL Core IT Capital Investment]		117.8	21.7	21.7	0.0	271.3	n/a	=
FY21 CAPITAL INVESTMENT PLAN TOTALS 117.8 21.7 21.7 0.0 271.3 n/a										
	FY21 CAPITAL INVESTMENT PLAN TOTALS			117.8	21.7	21.7	0.0	271.3	n/a	-

^{**} This is a program of work.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770

Information Technology Capital Investment Quarterly Report

Rate Year 3 - Third Quarter Ended May 31, 2021

Narragansett Electric Company, Narragansett Gas Company and Narragansett Electric Company - Transmission d/b/a National Grid Projects not continuing in Rate Year 3 Quarter 3

Attachment 3 Page 1 of 1

Rate Year 3 Quarter 3 (April 1, 2021 - May 31, 2021)

Amounts in Millions of USD

					Tot	al Service Co	mpany Spendir	ıg
Project Name	INVP#	Forecasted In	Allocation	RI Total	FYTD 22	FYTD 22	FYTD 22	FY 22
r roject Name	INVI #	Service Date	Code	Percent	Budget	Actual	Variance	Budget
Business Programs and Projects								
Total Business Programs and Projects					0.0	0.0	0.0	0.0
Regulatory, Legal and Compliance Mandates								
Regulatory, Legal and Compliance Mandates					0.0	0.0	0.0	0.0
Technology/Infrastructure Foundation and Reliability								
Total Technology/Infrastructure Foundation and Reliab	ility				0.0	0.0	0.0	0.0
Projects not continuing in RY3 Q1 Total					0.0	0.0	0.0	0.0

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770

Information Technology Capital Investment Quarterly Report

Rate Year 3 - Third Quarter Ended May 31, 2021

Narragansett Electric Company, Narragansett Gas Company and Narragansett Electric Company - Transmission d/b/a National Grid New Capital Investment Demand not on FY22 Plan

Attachment 4 Page 1 of 1

Rate Year 3 Quarter 3 (April 1, 2021 - May 31, 2021)

Amounts in Millions of USD

			TOTAL	SERVICE COMPAN	NY SPENDING	
Project Name	INVP#	Forecasted In Service Date	FYTD 22 Budget	FYTD 22 Actual	FYTD 22 Variance	FY22 Budget
Total Business Programs and Projects		- -	0.0	0.0	0.0	0.0
Total Regulatory, Legal and Compliance Mandates		- -	0.0	0.0	0.0	0.0
INVP 6258USA Data Archival	6258	12/31/2021	-	0.2	(0.2)	
Total Technology/Infrastructure Foundation and Reliability		-	0.0	0.2	(0.2)	0.0
FY21 NEW DEMAND CAPITAL INVESTMENT TOTALS		-	0.0	0.2	(0.2)	0.0

d/b/a National Grid RIPUC Docket No. 4770 Information Technology Capital Investment Quarterly Report Rate Year 3 - Third Quarter Ended May 31, 2021 Attachment 5

The Narragansett Electric Company

Page 1 of 1

Narragansett Electric Company, Narragansett Gas Company and Narragansett Electric Company - Transmission d/b/a National Grid Fiscal Year 2021 (April 2020 - February 2021)
Budget Exception Reporting

Amounts in Millions of USD

Impact of Budget Exceptions on FY21 Capital Plan Categories

Investment Category	Budget Exception Amt \$M
Business Programs and Projects	-
Regulatory, Legal, and Compliance Man-	-
Technology/Infrastructure Foundation an	-
CIO Budget Exception	-
Total	-

Top 10 Projects in each Investment Plan Category Impacted by Budget Exceptions

Investment Category	INVP#	INVP# of Projects within Project Name a program	Budget Exception Amt \$M	Driver for Budget Exception Request
Business Programs and Projects				
		Other Buisness Programs and Projects	0.000 0.000 No	t Category Impact
Regulatory, Legal and Compliance Mandates				t category impact
	5891C	FCS Upgrade		ditional licenses needed to support the upgrade of acy devices that will no longer be supported
		Other Regulatory, Legal and Compliance Mandates	-0.300 0.000 Ne	t Category Impact
Technology/Infrastructure Foundation and Reliability				
	6200	I&O US Cloud and Hosting FY22	-0.043 Re	allocation to 6018 to support enabling cloud services to tect threats to National Grid technologies
		Other Technology/Infrastructure Foundation and Reliability	0.043 Ne	t Category Impact
			0.000	
Total		=	\$ -	

Programs with * consist of several individual projects.

Certificate of Service

I hereby certify that a copy of the cover letter and any materials accompanying this certificate was electronically transmitted to the individuals listed below.

The paper copies of this filing are being hand delivered to the Rhode Island Public Utilities Commission and to the Rhode Island Division of Public Utilities and Carriers.

Joanne M. Scanlon

<u>July 30, 2021</u> Date

National Grid Docket No. 4770 (Rate Application) & Docket No. 4780 (PST) Combined Service list updated 4/1/2021

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